

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name	: SBP 60/95 LNH
Product code	: Q2266
Synonyms	: Special boiling point spirit 60/95 LNH
CAS-No.	: 64742-49-0

Unique Formula Identifier (UFI)	: EE01-K09S-X00Y-5HW5
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#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture	: Industrial Solvent. Please refer to section 16 and/or the annexes for the registered uses under REACH.
Uses advised against	: This product must not be used in applications other than the above without first seeking the advice of the supplier.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: <b>Shell Chemicals Europe B.V.</b> PO Box 2334 3000 CH Rotterdam Netherlands
Telephone	: +31 (0)10 441 5137 / +31 (0)10 441 5191
Telefax	: +31 (0)20 716 8316/ +31 (0)20 713 9230
Contact for Safety Data Sheet	: sccmsds@shell.com

#### 1.4 Emergency telephone number

+44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Skin irritation, Category 2

H315: Causes skin irritation.

Specific target organ toxicity - single exposure, Category 3, Narcotic effects

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Danger

Hazard statements

:  
PHYSICAL HAZARDS:  
H225 Highly flammable liquid and vapour.  
HEALTH HAZARDS:  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
ENVIRONMENTAL HAZARDS:  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

:  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Storage:

No precautionary phrases.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### 2.3 Other hazards

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form flammable/explosive vapour-air mixture.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Not Assigned 921-024-6 01-2119475514-35	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 (Narcotic effects) Aquatic Chronic 2; H411	>= 75
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Not Assigned 931-254-9 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 (Narcotic effects) Aquatic Chronic 2; H411	<= 25

For explanation of abbreviations see section 16.

#### Further information

Contains:

Chemical name	Identification number	Classification	Concentration (% w/w)
Cyclohexane	110-82-7, 203-806-2	Flam. Liq.2; H225 Asp. Tox.1; H304 Skin Irrit.2; H315 STOT SE3; H336	>= 15 - <= 20

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

		Aquatic Chronic1; H410 Aquatic Acute1; H400	
n-Hexane	110-54-3, 203-777-6	Flam. Liq.2; H225 Skin Irrit.2; H315 Asp. Tox.1; H304 STOT RE2; H373 STOT SE3; H336 Repr.2; H361f Aquatic Chronic2; H411	>= 0 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Not expected to be a health hazard when used under normal conditions.
- Protection of first-aiders : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
- If inhaled : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- In case of skin contact : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
- In case of eye contact : Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
- If swallowed : Call emergency number for your location / facility. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.
- No specific hazards under normal use conditions.  
Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.
- If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.
- Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Call a doctor or poison control center for guidance.  
Potential for chemical pneumonitis.  
Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable extinguishing media : Do not use water in a jet.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Clear fire area of all non-emergency personnel.  
Hazardous combustion products may include:  
A complex mixture of airborne solid and liquid particulates and gases (smoke).  
Carbon monoxide.  
Unidentified organic and inorganic compounds.  
Flammable vapours may be present even at temperatures below the flash point.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

---

Will float and can be reignited on surface water.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Keep adjacent containers cool by spraying with water.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe all relevant local and international regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

6.1.1 For non emergency personnel:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.  
Do not breathe fumes, vapour.  
Do not operate electrical equipment.

6.1.2 For emergency responders:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.  
Do not breathe fumes, vapour.  
Do not operate electrical equipment.

### 6.2 Environmental precautions

Environmental precautions : Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Ventilate contaminated area thoroughly.  
If contamination of site occurs remediation may require specialist advice.

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Ensure that all local regulations regarding handling and storage facilities are followed.

Advice on safe handling : Avoid inhaling vapour and/or mists.

Avoid contact with skin, eyes and clothing.

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Bulk storage tanks should be diked (bunded).

When using do not eat or drink.

The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Product Transfer : Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of han-

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

dling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

Refer to guidance under Handling section.

Hygiene measures : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. Do not ingest. If swallowed, then seek immediate medical assistance.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Further information on storage stability : Storage Temperature: Ambient.

Bulk storage tanks should be diked (bunded).  
Locate tanks away from heat and other sources of ignition.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat.  
Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment.  
Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.  
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.  
The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency office.

Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., For container paints, use epoxy paint, zinc silicate paint.  
Unsuitable material: Avoid prolonged contact with natural, butyl or nitrile rubbers.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 7.3 Specific end use(s)

Specific use(s) : Please refer to section 16 and/or the annexes for the registered uses under REACH.

See additional references that provide safe handling practices for liquids that are determined to be static accumulators: American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Aliphatic solvents 60 - 110, low n-hexane	Not Assigned	TWA	900 mg/m <sup>3</sup>	EU HSPA
Cyclohexane	110-82-7	TWA	100 ppm 350 mg/m <sup>3</sup>	GB EH40
Cyclohexane		STEL	300 ppm 1,050 mg/m <sup>3</sup>	GB EH40
Cyclohexane		TWA	200 ppm 700 mg/m <sup>3</sup>	2006/15/EC
Further information: Indicative				
Cyclohexane		TWA	100 ppm	ACGIH
n-Hexane	110-54-3	TWA	20 ppm 72 mg/m <sup>3</sup>	GB EH40
n-Hexane		TWA	20 ppm 72 mg/m <sup>3</sup>	2006/15/EC
Further information: Indicative				
n-Hexane		TWA	50 ppm	ACGIH

#### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Cyclohexane	110-82-7	1,2-Cyclohexanediol: 50 mg/g Creatinine (Urine)	End of shift at end of workweek	ACGIH BEI
n-Hexane	110-54-3	2,5-Hexanedione: 0.5 mg/l (Urine)	End of shift	ACGIH BEI

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Workers	Dermal	Long-term systemic effects	773 mg/kg
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Workers	Inhalation	Long-term systemic effects	2035 mg/m3
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Consumers	Dermal	Long-term systemic effects	699 mg/kg
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Consumers	Inhalation	Long-term systemic effects	608 mg/m3
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	Consumers	Oral	Long-term systemic effects	699 mg/kg
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Workers	Dermal	Long-term systemic effects	13964 mg/kg
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Workers	Inhalation	Long-term systemic effects	5306 mg/m3
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Consumers	Dermal	Long-term systemic effects	1377 mg/kg
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Consumers	Inhalation	Long-term systemic effects	1131 mg/m3
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Consumers	Oral	Long-term systemic effects	1301 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Remarks:	Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.	

## 8.2 Exposure controls

### Engineering measures

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.  
Use sealed systems as far as possible.  
Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Local exhaust ventilation is recommended.  
Firewater monitors and deluge systems are recommended.  
Eye washes and showers for emergency use.  
Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.  
The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.  
Define procedures for safe handling and maintenance of controls.  
Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.  
Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.  
Drain down system prior to equipment break-in or maintenance.  
Retain drain downs in sealed storage pending disposal or subsequent recycle.

### Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.  
The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Nitrile rubber gloves. Incidental contact/Splash protection: PVC or neoprene rubber gloves.  
For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Skin and body protection** : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.  
Protective clothing approved to EU Standard EN14605.  
Wear antistatic and flame-retardant clothing, if a local risk assessment deems it so.

**Respiratory protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.  
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.  
If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A boiling point > 65°C (149°F)] meeting EN14387.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: Paraffinic
Odour Threshold	: 990 ppm
Melting / freezing point	: Data not available
Boiling point/boiling range	: 60 - 95 °C
Flammability	
Flammability (solid, gas)	: Data not available

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

---

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit /  
upper flammability limit : 7.3 %(V)

Lower explosion limit /  
Lower flammability limit : 1 %(V)

Flash point : -25 °C  
Method: IP 170

Auto-ignition temperature : 413 °C

Decomposition temperature  
Decomposition temperature : Data not available

pH : Not applicable

Viscosity  
Viscosity, dynamic : Data not available  
Viscosity, kinematic : 0.45 mm<sup>2</sup>/s (25 °C)  
Method: ASTM D445

Solubility(ies)  
Water solubility : insoluble  
Solubility in other solvents : Data not available

Partition coefficient: n-  
octanol/water : log Pow: 4 - 5.1

Vapour pressure : 15 kPa (20 °C)

Relative density : Data not available

Density : 693 kg/m<sup>3</sup> (15 °C)  
Method: ASTM D4052

Relative vapour density : Data not available

Particle characteristics  
Particle size : Data not available

### 9.2 Other information

Explosives : In use may form flammable/explosive vapour-air mixture.

Oxidizing properties : Not applicable

Evaporation rate : 7.6

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

---

Method: ASTM D 3539, nBuAc=1

Conductivity : ca. 1 pS/m  
Low conductivity: < 100 pS/m

The conductivity of this material makes it a static accumulator. A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semi-conductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

Surface tension : Data not available

Molecular weight : 92 g/mol

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

#### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions  
Stable under normal conditions of use.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

#### 10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static electricity.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.  
Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

---

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of : Exposure may occur via inhalation, ingestion, skin absorption, exposure skin or eye contact, and accidental ingestion.

##### Acute toxicity

###### Components:

###### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Acute oral toxicity : LD50 (Rat): > 5000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Remarks: Low toxicity by inhalation.

Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

###### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC 50 (Rat): > 20 mg/l  
Remarks: Low toxicity by inhalation.  
Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD 50 (Rabbit): 2,000 mg/kg  
Remarks: Low toxicity  
Based on available data, the classification criteria are not met.

##### Skin corrosion/irritation

###### Components:

###### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Causes skin irritation.  
Repeated exposure may cause skin dryness or cracking.

###### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Causes skin irritation.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### Serious eye damage/eye irritation

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Remarks : Not irritating to eye.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Remarks : Not irritating to eye.

### Respiratory or skin sensitisation

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Remarks : Not a sensitiser.  
Based on available data, the classification criteria are not met.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Remarks : Not a sensitiser.  
Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Genotoxicity in vivo : Remarks: Not mutagenic.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Genotoxicity in vivo : Remarks: Not mutagenic.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### Carcinogenicity

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Remarks : Not a carcinogen.  
Tumours produced in animals are not considered relevant to humans.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Tumours produced in animals are not considered relevant to humans.  
Not a carcinogen.  
Based on available data, the classification criteria are not met.

Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
Cyclohexane	No carcinogenicity classification.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	No carcinogenicity classification.
n-Hexane	No carcinogenicity classification.
Hydrocarbons, C6, isoalkanes, <5% n-hexane	No carcinogenicity classification.

### Reproductive toxicity

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Effects on fertility : Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair fertility.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

#### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Effects on fertility : Remarks: Not a developmental toxicant., Does not impair fertility.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### STOT - single exposure

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : May cause drowsiness and dizziness.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Components:

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Kidney: caused kidney effects in male rats which are not considered relevant to humans

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Based on available data, the classification criteria are not met.

### Aspiration toxicity

#### Components:

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Components:

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Remarks : Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Toxicity to fish : Remarks: LC/EC/IC50 >10 - <=100 mg/l  
Harmful

Toxicity to daphnia and other aquatic invertebrates : Remarks: LC/EC/IC50 >1 - <=10 mg/l  
Toxic

Toxicity to algae/aquatic plants : Remarks: LL/EL/IL50 >10 <= 100 mg/l  
Harmful

Toxicity to microorganisms :  
Remarks: Data not available

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l

#### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Toxicity to fish : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates : Remarks: LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to algae/aquatic plants : Remarks: Toxic  
LC/EC/IC50 >10 - <=100 mg/l

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Toxicity to microorganisms : Remarks: Data not available

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

### 12.2 Persistence and degradability

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Biodegradability : Remarks: Readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Biodegradability : Remarks: Readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

### 12.3 Bioaccumulative potential

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

### 12.4 Mobility in soil

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil particles and will not be mobile.

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil particles and will not be mobile.

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:**

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

### Components:

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Additional ecological information : Does not have ozone depletion potential.

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Additional ecological information : Does not have ozone depletion potential.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Do not dispose into the environment, in drains or in water courses.  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Comply with any local recovery or waste disposal regulations.

Local legislation

Remarks : Hazardous Waste (England and Wales) Regulations 2005.  
Hazardous Waste (England and Wales) Regulations 2005.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR	:	1268
RID	:	1268
IMDG	:	1268
IATA	:	1268

### 14.2 UN proper shipping name

ADR	:	PETROLEUM DISTILLATES, N.O.S.
RID	:	PETROLEUM DISTILLATES, N.O.S.
IMDG	:	PETROLEUM DISTILLATES, N.O.S. (NAPHTHA)
IATA	:	Petroleum distillates, n.o.s.

### 14.3 Transport hazard class(es)

ADR	:	3
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

**RID** : 3

**IMDG** : 3

**IATA** : 3

### 14.4 Packing group

#### ADR

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

Labels : 3

#### RID

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

Labels : 3

Remarks : SP640CD: Special provision 640D

#### IMDG

Packing group : II

Labels : 3

#### IATA

Packing group : II

Labels : 3

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

### 14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Y

Ship type : 2

Product name : Hexane (all isomers)

**Additional Information** : Transport in bulk according to Annex II of Marpol and the IBC Code

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation (Annex XIV)	:	Product is not subject to Authorisation under REACH.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P5c	FLAMMABLE LIQUIDS
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E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Volatile organic compounds (VOC) content: 100 %

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Environmental Protection Act 1990 (as amended). Health and Safety at Work etc. Act 1974. Consumers Protection Act 1987. Pollution Prevention and Control Act 1999. Environment Act 1995. Factories Act 1961. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). Control of Major Accident Hazards Regulations 1999 (as amended). Renewable Transport Fuel Obligations Order 2007 (as amended). Energy Act 2011. Environmental Permitting (England and Wales) Regulations 2010 (as amended). Waste (England and Wales) Regulations 2011 (as amended). Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011.

Product is subject to the Control of Major Accident Hazards Regulations 2015 (2015 No. 483) based on Seveso III directive (2012/18/EU).

#### The components of this product are reported in the following inventories:

AIIC	:	Listed
DSL	:	Listed



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

IECSC	: Listed
KECI	: Listed
PICCS	: Listed
TSCA	: Listed
TCSI	: Listed
ENCS	: Listed
NZIoC	: Listed

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H336	: May cause drowsiness or dizziness.
H361f	: Suspected of damaging fertility.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2006/15/EC	: Europe. Indicative occupational exposure limit values
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
EU HSPA	: OEL based on European Hydrocarbon Solvents Producers (CEFIC-HSPA) methodology.
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2006/15/EC / TWA	: Limit Value - eight hours
ACGIH / TWA	: 8-hour, time-weighted average
EU HSPA / TWA	: 8-hr TWA
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : For Industry guidance and tools on REACH please visit the CEFIC website at <http://cefic.org/Industry-support>.  
The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

This product is classified as H304 (May be fatal if swallowed and enters airways). The risk relates to potential for aspiration. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Section 8 of the SDS. An exposure scenario is not presented.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

### Classification of the mixture:

Flam. Liq. 2	H225
Asp. Tox. 1	H304
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Chronic 2	H411

### Classification procedure:

On basis of test data.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : Manufacture of substance- Industrial

#### Uses - Worker

Title : Distribution of substance- Industrial

#### Uses - Worker

Title : Formulation & (re)packing of substances and mixtures- Industrial

#### Uses - Worker

Title : Uses in Coatings- Industrial

#### Uses - Worker

Title : Uses in Coatings- Professional

#### Uses - Worker

Title : Use in Cleaning Agents- Industrial

#### Uses - Worker

Title : Use in Cleaning Agents- Professional

#### Uses - Worker

Title : Lubricants- Industrial

#### Uses - Worker

Title : Lubricants- ProfessionalLow Environmental Release

#### Uses - Worker

Title : Lubricants- ProfessionalHigh Environmental Release

#### Uses - Worker

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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Title : Metal working fluids / rolling oils- Industrial

**Uses - Worker**

Title : Metal working fluids / rolling oils- Professional

**Uses - Worker**

Title : Use as binders and release agents- Industrial

**Uses - Worker**

Title : Use as binders and release agents- Professional

**Uses - Worker**

Title : Use as a fuel- Industrial

**Uses - Worker**

Title : Use as a fuel- Professional

**Uses - Worker**

Title : Functional Fluids- Industrial

**Uses - Worker**

Title : Functional Fluids- Professional

**Uses - Worker**

Title : Use in laboratories- Industrial

**Uses - Worker**

Title : Use in laboratories- Professional

**Identified Uses according to the Use Descriptor System**

**Uses - Consumer**

Title : Uses in Coatings  
- Consumer

**Uses - Consumer**

Title : Use in Cleaning Agents  
- Consumer

**Uses - Consumer**

Title : Lubricants  
- Consumer  
Low Environmental Release

**Uses - Consumer**

Title : Lubricants  
- Consumer  
High Environmental Release

**Uses - Consumer**

Title : Use as a fuel

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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- Consumer

### Uses - Consumer

Title : Functional Fluids  
- Consumer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000881</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Manufacture of substance- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental Release Categories:</b> ERC1, ERC4, ESVOC SpERC 1.1.v1
<b>Scope of process</b>	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container) and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.
Process samplingPROC8b	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Bulk transfers(open systems)PROC8b	No other specific measures identified.
Bulk transfers(closed systems)PROC8b	No other specific measures identified.
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	3.300
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	3.300
Maximum daily site tonnage (kg/day):	33.000
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	100
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	5.0E-02
Release fraction to wastewater from process (initial release prior to RMM):	3.0E-04
Release fraction to soil from process (initial release prior to RMM):	1.0E-04
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage	96

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	1.6E+06
Assumed domestic sewage treatment plant flow (m3/d)	1.0E+04
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
During manufacturing no waste of the substance is generated.	
<b>Conditions and measures related to external recovery of waste</b>	
During manufacturing no waste of the substance is generated.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000882</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Distribution of substance- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 <b>Environmental Release Categories:</b> ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC 6C,, ERC7, ESVOC SpERC 1.1b.v1
<b>Scope of process</b>	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.
Process samplingPROC3	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Bulk transfers(closed systems)PROC8b	No other specific measures identified.
Bulk transfers(open systems)PROC8b	No other specific measures identified.
Drum and small package fillingPROC9	No other specific measures identified.
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	10
Fraction of Regional tonnage used locally:	0.002
Annual site tonnage (tonnes/year):	0.02
Maximum daily site tonnage (kg/day):	1
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	1E-03
Release fraction to wastewater from process (initial release prior to RMM):	1E-05
Release fraction to soil from process (initial release prior to RMM):	1E-05
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage	96

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	6.0E+04
Assumed domestic sewage treatment plant flow (m3/d)	2.3E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000883</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Formulation & (re)packing of substances and mixtures- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3, SU10 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 <b>Environmental Release Categories:</b> ERC2, ESVOC SpERC 2.2.v1
<b>Scope of process</b>	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.
Batch processes at elevated temperaturesOperation is car-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

ried out at elevated temperature (> 20°C above ambient temperature).PROC3	
Process samplingPROC3	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Bulk transfersPROC8b	No other specific measures identified.
Mixing operations (open systems)PROC5	No other specific measures identified.
ManualTransfer from/pouring from containersNon-dedicated facilityPROC8a	No other specific measures identified.
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14	No other specific measures identified.
Drum and small package fillingPROC9	No other specific measures identified.
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	61
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	61
Maximum daily site tonnage (kg/day):	6.1E+03
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	10
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.025
Release fraction to wastewater from process (initial release prior to RMM):	0.0002
Release fraction to soil from process (initial release prior to RMM):	0.0001
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	4.9E+05
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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should ensure that risks are managed to at least equivalent levels.
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<b>Section 4.2 -Environment</b>
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Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
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Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

**300000000884**

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings- Industrial
Use Descriptor	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 14, PROC 15 <b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.3a.v1
Scope of process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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Section 2.1	Control of Worker Exposure
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed)	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

systems)PROC1	
General exposures (closed systems)with sample collectionUse in contained systemsPROC2	No other specific measures identified.
Film formation - force drying, stoving and other technologies.(closed systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC2	No other specific measures identified.
Mixing operations (closed systems)Use in contained batch processesPROC3	No other specific measures identified.
Film formation - air dryingPROC4	No other specific measures identified.
Preparation of material for applicationMixing operations (open systems)PROC5	No other specific measures identified.
Spraying (automatic/robotic)PROC7	No other specific measures identified.
ManualSprayingPROC7	No other specific measures identified.
Material transfersNon-dedicated facilityPROC8a	No other specific measures identified.
Material transfersDedicated facilityPROC8b	No other specific measures identified.
Roller, spreader, flow applicationPROC10	No other specific measures identified.
Dipping, immersion and pouringPROC13	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Material transfersDrum/batch transfersTransfer from/pouring from containersPROC9	No other specific measures identified.
Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14	No specific measures identified.
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	540
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	540
Maximum daily site tonnage (kg/day):	2.7E+04
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.98
Release fraction to wastewater from process (initial release prior to RMM):	7.0E-04
Release fraction to soil from process (initial release prior to RMM):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	79.4
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	1.4E+05
Assumed domestic sewage treatment plant flow (m3/d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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SECTION 3	EXPOSURE ESTIMATION
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000885</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.3b.v1
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed)	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

systems)PROC1	
Filling/ preparation of equipment from drums or containers.Use in contained systemsPROC2	No other specific measures identified.
General exposures.Use in contained systemsPROC2	No other specific measures identified.
Preparation of material for applicationPROC3	No other specific measures identified.
Film formation - air dryingPROC4	No other specific measures identified.
Preparation of material for applicationPROC5	No other specific measures identified.
Material transfersDrum/batch transfersNon-dedicated facilityPROC8a	No other specific measures identified.
Material transfersDrum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Roller, spreader, flow applicationPROC10	No other specific measures identified.
ManualSprayingIndoorPROC11	No other specific measures identified.
Dipping, immersion and pouringPROC13	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Hand application - fingerpaints, pastels, adhesivesPROC19	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	90
Fraction of Regional tonnage used locally:	5.0E-04
Annual site tonnage (tonnes/year):	4.5E-02
Maximum daily site tonnage (kg/day):	1.2E-01
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.98
Release fraction to wastewater from wide dispersive use:	0.01

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Release fraction to soil from wide dispersive use (regional only):	0.01
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	4.0E+03
Assumed domestic sewage treatment plant flow (m3/d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000886</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 <b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.4a.v1
<b>Scope of process</b>	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
Bulk transfers PROC8a	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Automated process with (semi) closed systems. Use in contained systems PROC2	No other specific measures identified.
Automated process with (semi) closed systems. Drum/batch transfers PROC3	No other specific measures identified.
Application of cleaning products in closed systems PROC2	No other specific measures identified.
Filling/ preparation of equipment from drums or containers. PROC8b	No other specific measures identified.
Use in contained batch processes PROC4	No other specific measures identified.
Degreasing small objects in cleaning station PROC13	No other specific measures identified.
Cleaning with low-pressure washers PROC10	No other specific measures identified.
Cleaning with high pressure washers PROC7	No other specific measures identified.
Manual Surfaces Cleaning PROC10	No other specific measures identified.
Storage. PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	280
Fraction of Regional tonnage used locally:	0.36
Annual site tonnage (tonnes/year):	100
Maximum daily site tonnage (kg/day):	5.000
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	1.0
Release fraction to wastewater from process (initial release prior to RMM):	3E-06
Release fraction to soil from process (initial release prior to RMM):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by soil.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	70
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0.0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	6.1E+06
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

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### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000887</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.4b.v1
<b>Scope of process</b>	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Automated process with (semi) closed systems.Use in contained systemsPROC2	No other specific measures identified.
Automated process with (semi) closed systems.Drum/batch transfersUse in contained systemsPROC3	No other specific measures identified.
Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance products)PROC4	No other specific measures identified.
ManualSurfacesCleaningDipping, immersion and pouringPROC13	No other specific measures identified.
Cleaning with low-pressure washersRolling, Brushingno sprayingPROC10	No other specific measures identified.
Cleaning with high pressure washersSprayingPROC11	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).
ManualSurfacesCleaningPROC10	No other specific measures identified.
Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10	No other specific measures identified.
Application of cleaning products in closed systemsPROC4	No other specific measures identified.
Cleaning of medical devicesPROC4	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
Amounts Used	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	300
Fraction of Regional tonnage used locally:	5.0E-04
Annual site tonnage (tonnes/year):	0.15
Maximum daily site tonnage (kg/day):	0.42
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	365
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Release fraction to air from wide dispersive use (regional only):	0.02
Release fraction to wastewater from wide dispersive use:	1E-06
Release fraction to soil from wide dispersive use (regional only):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.1E+04
Assumed domestic sewage treatment plant flow (m3/d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000888</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18 <b>Environmental Release Categories:</b> ERC4, ERC7, ESVO SpERC 4.6a.v1
<b>Scope of process</b>	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open sys-	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

tems)PROC4	
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b	No other specific measures identified.
Initial factory fill of equipmentPROC9	No other specific measures identified.
Operation and lubrication of high energy open equipmentPROC17PROC18	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
SprayingPROC7	No other specific measures identified.
Maintenance (of larger plant items) and machine set up-PROC8b	No other specific measures identified.
Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC8b	No other specific measures identified.
Maintenance of small itemsPROC8a	No other specific measures identified.
Remanufacture of reject articlesPROC9	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	10
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	10
Maximum daily site tonnage (kg/day):	500
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.01
Release fraction to wastewater from process (initial release prior to RMM):	3E-05
Release fraction to soil from process (initial release prior to RMM):	0.001
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	70
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.3E+06
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000906</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants- ProfessionalLow Environmental Release
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.6b.v1
<b>Scope of process</b>	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
------------------	------------------------------------------------------------

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
Operation of equipment contain-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

ing engine oils and similar.PROC20	
General exposures (open systems)PROC4	No other specific measures identified.
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Operation and lubrication of high energy open equipmentIndoorPROC17	No other specific measures identified.
Operation and lubrication of high energy open equipmentOutdoorPROC17	No other specific measures identified.
Maintenance (of larger plant items) and machine set upPROC8b	No other specific measures identified.
Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).Dedicated facilityPROC8b	No other specific measures identified.
Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a	No other specific measures identified.
Engine lubricant servicePROC9	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
SprayingPROC11	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
Amounts Used	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	5
Fraction of Regional tonnage used locally:	0.0005

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Annual site tonnage (tonnes/year):	0.0025
Maximum daily site tonnage (kg/day):	0.0068
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.01
Release fraction to wastewater from wide dispersive use:	0.01
Release fraction to soil from wide dispersive use (regional only):	0.01
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.4E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000907</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants- ProfessionalHigh Environmental Release
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20, PROC 21 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.6c.v1
<b>Scope of process</b>	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
------------------	------------------------------------------------------------

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
Operation of equipment containing	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

engine oils and similar.PROC20	
General exposures (open systems)PROC4	No other specific measures identified.
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Operation and lubrication of high energy open equipmentIn-doorPROC17PROC18	No other specific measures identified.
Operation and lubrication of high energy open equipmentOut-doorPROC17	No other specific measures identified.
Maintenance (of larger plant items) and machine set upPROC8b	No other specific measures identified.
Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).Dedicated facilityPROC8b	No other specific measures identified.
Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a	No other specific measures identified.
Engine lubricant servicePROC9	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
SprayingPROC11	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
Amounts Used	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	5
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.0025
Maximum daily site tonnage (kg/day):	0.0068

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.6
Release fraction to wastewater from wide dispersive use:	0.05
Release fraction to soil from wide dispersive use (regional only):	0.05
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.0E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	
<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000908</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Metal working fluids / rolling oils- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17 <b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.7a.v1
<b>Scope of process</b>	Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
------------------	------------------------------------------------------------

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed sys-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

tems)PROC1PROC2PROC3	
General exposures (open systems)PROC4	No other specific measures identified.
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.PROC5PROC8bPROC9	No other specific measures identified.
Process samplingPROC8b	No other specific measures identified.
Metal machining operationsPROC17	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
SprayingPROC7	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
Automated metal rolling/formingUse in contained systemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC2	No other specific measures identified.
Semi-automated metal rolling/formingOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC17	No other specific measures identified.
Semi-automated metal rolling/formingPROC4	No other specific measures identified.
Equipment cleaning and maintenanceDedicated facilityPROC8b	No other specific measures identified.
Equipment cleaning and maintenanceNon-dedicated facilityPROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	2.1
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	2.1
Maximum daily site tonnage (kg/day):	110
<b>Frequency and Duration of Use</b>	
Continuous release.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.02
Release fraction to wastewater from process (initial release prior to RMM):	3E-05
Release fraction to soil from process (initial release prior to RMM):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	70
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.3E+06
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000909</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Metal working fluids / rolling oils- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.7c.v1
<b>Scope of process</b>	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
General exposures (closed sys-	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

tems)PROC1PROC2PROC3	
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or contain-ers.PROC5PROC8aPROC8bPROC9	No other specific measures identified.
Process samplingPROC8b	No other specific measures identified.
Metal machining operationsPROC17	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
SprayingPROC11	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
Equipment cleaning and maintenanceNon-dedicated facilityPROC8a	No other specific measures identified.
Equipment cleaning and maintenanceDedicated facilityPROC8b	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	1.1
Fraction of Regional tonnage used locally:	5.0E-04
Annual site tonnage (tonnes/year):	5.3E-04
Maximum daily site tonnage (kg/day):	1.4E-03
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.6
Release fraction to wastewater from wide dispersive use:	5.0E-02
Release fraction to soil from wide dispersive use (regional only):	5.0E-02
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emis-sions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	70
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

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Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000910</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as binders and release agents- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 7, PROC 8b, PROC 10, PROC 13, PROC 14 <b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.10a.v1
<b>Scope of process</b>	Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), and handling of waste.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
Bulk transfersUse in contained systemsPROC1PROC2PROC3	No other specific measures identified.
Drum/batch transfersPROC8b	No other specific measures identified.
Mixing operations (closed sys-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

tems)PROC3	
Mixing operations (open systems)PROC4	No other specific measures identified.
Mold formingPROC14	No other specific measures identified.
Casting operations(open systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC6	No other specific measures identified.
SprayingMachinePROC7	No other specific measures identified.
SprayingManualPROC7	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
Dipping, immersion and pouringPROC13	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	30
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	30
Maximum daily site tonnage (kg/day):	1.500
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	1.0
Release fraction to wastewater from process (initial release prior to RMM):	3E-06
Release fraction to soil from process (initial release prior to RMM):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by soil.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Treat air emission to provide a typical removal efficiency of (%)	80
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	9.2E+06
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

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measures.
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000911</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as binders and release agents- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 14 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.10b.v1
<b>Scope of process</b>	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
Bulk transfersUse in contained systemsPROC1PROC2PROC3	No other specific measures identified.
Drum/batch transfersPROC8aPROC8b	No other specific measures identified.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Mixing operations (closed systems)PROC3	No other specific measures identified.
Mixing operations (open systems)PROC4	No other specific measures identified.
Mold formingPROC14	No other specific measures identified.
Casting operations(open systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC6	No other specific measures identified.
SprayingMachinePROC11	No other specific measures identified.
SprayingManualPROC11	No other specific measures identified.
ManualRolling, BrushingPROC10	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	4.1
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.0021
Maximum daily site tonnage (kg/day):	0.0056
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.95
Release fraction to wastewater from wide dispersive use:	0.025
Release fraction to soil from wide dispersive use (regional only):	0.025
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary	0

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

wastewater treatment required.	
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.7E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

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or in combination.
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Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000913</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as a fuel- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 <b>Environmental Release Categories:</b> ERC7, ESVOC SpERC 7.12a.v1
<b>Scope of process</b>	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Bulk transfersDedicated facilityPROC8b	No other specific measures identified.
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
Use as a fuel(closed systems)PROC16	No other specific measures identified.
Equipment cleaning and	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

maintenancePROC8a	
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	5
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	5
Maximum daily site tonnage (kg/day):	250
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.05
Release fraction to wastewater from process (initial release prior to RMM):	1E-05
Release fraction to soil from process (initial release prior to RMM):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	95
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	9.8E+06
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
Combustion emissions limited by required exhaust emission controls.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Waste combustion emissions considered in regional exposure assessment.

### Conditions and measures related to external recovery of waste

This substance is consumed during use and no waste of substance is generated.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000914</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as a fuel- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.12b.v1
<b>Scope of process</b>	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Bulk transfersDedicated facilityPROC8b	No other specific measures identified.
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Refueling.Dedicated facilityPROC8b	No other specific measures identified.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
Use as a fuel(closed sys-	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

tems)PROC16	
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	5
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.0025
Maximum daily site tonnage (kg/day):	0.0068
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.01
Release fraction to wastewater from wide dispersive use:	1E-05
Release fraction to soil from wide dispersive use (regional only):	1E-05
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.5E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Combustion emissions limited by required exhaust emission controls.  
Waste combustion emissions considered in regional exposure assessment.

### Conditions and measures related to external recovery of waste

This substance is consumed during use and no waste of substance is generated.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000915</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Functional Fluids- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9 <b>Environmental Release Categories:</b> ERC7, ESVOC SpERC 7.13a.v1
<b>Scope of process</b>	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Bulk transfers(closed systems)PROC1PROC2	No other specific measures identified.
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Filling of articles/equipment(closed systems)PROC9	No other specific measures identified.
Filling/ preparation of equipment from drums or	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

containers.Non-dedicated facilityPROC8a	
General exposures (closed systems)PROC2	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.
Remanufacture of reject articlesPROC9	No other specific measures identified.
Equipment maintenance-PROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	6
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	6
Maximum daily site tonnage (kg/day):	300
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.01
Release fraction to wastewater from process (initial release prior to RMM):	3E-05
Release fraction to soil from process (initial release prior to RMM):	0.001
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0.0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.3E+06
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000916</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Functional Fluids- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 9, PROC 20 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.13b.v1
<b>Scope of process</b>	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Drum/batch transfersPROC8a	No other specific measures identified.
Transfer from/pouring from containersPROC9	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.PROC9	No other specific measures identified.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Operation of equipment containing engine oils and similar.PROOC20	No other specific measures identified.
Operation of equipment containing engine oils and similar.Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC20	No other specific measures identified.
Remanufacture of reject articlesPROC9	No other specific measures identified.
Equipment maintenance-PROC8a	No other specific measures identified.
Storage.PROOC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	4
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.002
Maximum daily site tonnage (kg/day):	0.0055
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.05
Release fraction to wastewater from wide dispersive use:	0.025
Release fraction to soil from wide dispersive use (regional only):	0.025
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Sludge should be incinerated, contained or reclaimed.

### Conditions and Measures related to municipal sewage treatment plant

Estimated substance removal from wastewater via domestic sewage treatment (%)	96
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Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
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Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.6E+02
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Assumed domestic sewage treatment plant flow (m3/d)	2,000
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### Conditions and Measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or regional regulations.

### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000918</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in laboratories- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 10, PROC 15 <b>Environmental Release Categories:</b> ERC2, ERC4
<b>Scope of process</b>	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Laboratory activitiesPROC15	No other specific measures identified.
CleaningPROC10	No other specific measures identified.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	0.7

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	0.7
Maximum daily site tonnage (kg/day):	35
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	20
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0.025
Release fraction to wastewater from process (initial release prior to RMM):	0.02
Release fraction to soil from process (initial release prior to RMM):	0.0001
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-release estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater sediment.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	4,900
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Worker

<b>300000000919</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in laboratories- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 10, PROC 15 <b>Environmental Release Categories:</b> ERC8a, ESVOC SpERC 8.17.v1
<b>Scope of process</b>	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
------------------	------------------------------------------------------------

<b>Section 2.1</b>	<b>Control of Worker Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,
<b>Frequency and Duration of Use</b>	
Covers daily exposures up to 8 hours (unless stated differently).	
<b>Other Operational Conditions affecting Exposure</b>	
Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.	

<b>Contributing Scenarios</b>	<b>Risk Management Measures</b>
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
Laboratory activitiesPROC15	No other specific measures identified.
CleaningPROC10	No other specific measures identified.

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Regional use tonnage (tonnes/year):	0.7
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	3.5E-04
Maximum daily site tonnage (kg/day):	9.6E-04
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.5
Release fraction to wastewater from wide dispersive use:	0.5
Release fraction to soil from wide dispersive use (regional only):	0
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Common practices vary across sites thus conservative process re-lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	40
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001145</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.3c.v1
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
------------------	------------------------------------------------------------

<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm <sup>2</sup> ):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	365
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm <sup>2</sup> ): 35.73 cm <sup>2</sup>

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

	For each use event, covers amount up to 9 g
	Covers use in room size of 20 m3
	Covers exposure up to 4 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue).	Covers concentrations up to 30 %
	covers use up to 1 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 110.00 cm2
	For each use event, covers amount up to 6,390 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray.	Covers concentrations up to 30 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 85.05 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
Adhesives, sealants Seal- ants.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 75 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event
Anti-Freeze and de-icing products Washing car win- dow.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 0.5 g
	Covers use in a one car garage (34 m3) under typical ventila- tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0.02 hours/event
Anti-Freeze and de-icing products Pouring into radia- tor.	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.00 cm2
	For each use event, covers amount up to 2,000 g
	Covers use in a one car garage (34 m3) under typical ventila- tion.



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Anti-Freeze and de-icing products Lock de-icer.	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 214.40 cm2
	For each use event, covers amount up to 4 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.25 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only). Laundry and dish washing products.	Covers concentrations up to 5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 15 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.50 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	Covers concentrations up to 5 %
	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 27 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).	Covers concentrations up to 15 %
	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.00 cm2
	For each use event, covers amount up to 35 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

Coatings and paints, thinners, paint removers Waterborne latex wall paint.	Covers concentrations up to 1.5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 2,760 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint.	Covers concentrations up to 27.5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 744 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 491 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Fillers, Putties Fillers and putty.	Covers concentrations up to 2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 85 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

Fillers, Putties Plasters and floor equalizers.	Covers concentrations up to 2 %
	covers use up to 12 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 13,800 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Fillers, Putties Modelling clay.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 254.40 cm2
	For each use event, assumes swallowed amount of 1 g
Finger paints Finger paints	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 254.40 cm2
	For each use event, assumes swallowed amount of 1.35 g
Non-metal-surface treatment products Waterborne latex wall paint.	Covers concentrations up to 1.5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 2,760 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products Solvent rich, high solid, water borne paint.	Covers concentrations up to 27.5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 744 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.33 hours/event

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

Non-metal-surface treatment products Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 491 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Ink and toners Inks and toners.	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 71.40 cm2
	For each use event, covers amount up to 40 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 29 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 56 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 56 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Lubricants, greases, release products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventilation.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Lubricants, greases, re-release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, re-release products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 73 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 29 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 142 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
Polishes and wax blends Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 35 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Textile dyes, finishing and impregnating products; including bleaches and other processing aids	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 115 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event

### Section 2.2

### Control of Environmental Exposure

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	270
Fraction of Regional tonnage used locally:	5.0E-04
Annual site tonnage (tonnes/year):	0.14
Maximum daily site tonnage (kg/day):	0.37
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.985
Release fraction to wastewater from wide dispersive use:	0.01
Release fraction to soil from wide dispersive use (regional only):	0.005
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by soil.	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	9,600
Assumed domestic sewage treatment plant flow (m3/d)	2.0E+03
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001148</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, PC38 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.4c.v1
<b>Scope of process</b>	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm <sup>2</sup> ):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	365
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Air care products Air care, instant action (aerosol sprays).	Covers concentrations up to 50 %
	covers use up to 365 day/year
	covers use up to 4 times/day of use



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	For each use event, covers amount up to 0.1 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.25 hours/event
Air care products Air care, instant action (aerosol sprays). pesticides (excipient only).	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 4 times/day of use
	For each use event, covers amount up to 0.5 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.25 hours/event
Air care products Air care, continuous action (solid and liquid).	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.70 cm2
	For each use event, covers amount up to 0.48 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 8.00 hours/event
Air care products Air care, continuous action (solid and liquid). pesticides (excipient only).	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.70 cm2
	For each use event, covers amount up to 0.48 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 8.00 hours/event
Anti-Freeze and de-icing products Washing car window.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 0.5 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.02 hours/event
Anti-Freeze and de-icing products Pouring into radiator.	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.00 cm2

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

	For each use event, covers amount up to 2,000 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Anti-Freeze and de-icing products Lock de-icer.	Covers concentrations up to 50 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 214.40 cm2
	For each use event, covers amount up to 4 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.25 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Laundry and dish washing products.	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 15 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.50 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 5 %
Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 27 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Biocidal products (e.g. Disinfectants, pest control) (excipient only).	Covers concentrations up to 15 %
Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.00 cm2
	For each use event, covers amount up to 35 g
	Covers use under typical household ventilation.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Coatings and paints, thinners, paint removers Waterborne latex wall paint.	Covers concentrations up to 1.5 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 2,760 g
	Covers use under typical household ventilation. 20
	Covers use in room size of 20 m3
	Covers exposure up to 2.2 hours/event
Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint.	Covers concentrations up to 27.5 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 744 g
	Covers use under typical household ventilation. 2.20
	Covers use in room size of 20 m3
	Covers exposure up to 2.2 hours/event
Coatings and paints, thinners, paint removers Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.33 hours/event
Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	covers use up to 3 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.5 cm2
	For each use event, covers amount up to 491 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2 hours/event
Lubricants, greases, release products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventila-

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Lubricants, greases, re-release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, re-release products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 73 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Washing and cleaning products (including solvent based products) Laundry and dish washing products.	Covers concentrations up to 5 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 15 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.50 hours/event
Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	Covers concentrations up to 100 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857.50 cm2
	For each use event, covers amount up to 27 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).	Covers concentrations up to 15 %

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.00 cm2
	For each use event, covers amount up to 35 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Welding and soldering products (with flux coatings or flux cores.), flux products	Covers concentrations up to 20 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 12 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	20
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.01
Maximum daily site tonnage (kg/day):	0.027
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.95
Release fraction to wastewater from wide dispersive use:	0.025
Release fraction to soil from wide dispersive use (regional only):	0.025
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	1.1E+03
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

regulations.

### SECTION 3      EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4      GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001152</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants - Consumer Low Environmental Release
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC1, PC24, PC31 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.6d.v1
<b>Scope of process</b>	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm <sup>2</sup> ):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	365
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm <sup>2</sup> ): 35.73 cm <sup>2</sup>
	For each use event, covers amount up to 9 g

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue).	Covers concentrations up to 30 %
	covers use up to 1 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 110.00 cm2
	For each use event, covers amount up to 6,390 g
	Covers use in room size of 20 m3
	Covers exposure up to 6.00 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Glue from spray.	Covers concentrations up to 30 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 85.05 g
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Seal- ants.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 75 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event
	Covers use under typical household ventilation.
Lubricants, greases, re- lease products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventila- tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Lubricants, greases, re- lease products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, re- lease products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
	Covers use under typical household ventilation.
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 29 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 142 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
	Covers use under typical household ventilation.
Polishes and wax blends Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
	Covers use under typical household ventilation.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	4
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.002
Maximum daily site tonnage (kg/day):	0.0055
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.01
Release fraction to wastewater from wide dispersive use:	0.01
Release fraction to soil from wide dispersive use (regional only):	0.01
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage	96

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

treatment (%)	
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.7E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001154</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Lubricants - Consumer High Environmental Release
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC1, PC24, PC31 <b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOc SpERC 8.6e.v1
<b>Scope of process</b>	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm <sup>2</sup> ):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	365
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m <sup>3</sup> Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Adhesives, sealants Glues, hobby use.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm <sup>2</sup> ): 35.73 cm <sup>2</sup>
	For each use event, covers amount up to 9 g

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue).	Covers concentrations up to 30 %
	covers use up to 1 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 110.00 cm2
	For each use event, covers amount up to 6,390 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 6.00 hours/event
Adhesives, sealants Glue from spray.	Covers concentrations up to 30 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 85.05 g
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Seal- ants.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35.73 cm2
	For each use event, covers amount up to 75 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event
	Covers use under typical household ventilation.
Lubricants, greases, re- lease products Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventila- tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Lubricants, greases, re- lease products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, re- lease products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428.75 cm2
	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
	Covers use under typical household ventilation.
Polishes and wax blends Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 29 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 142 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
	Covers use under typical household ventilation.
Polishes and wax blends Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	covers use up to 8 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430.00 cm2
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
	Covers use under typical household ventilation.

Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	4
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.002
Maximum daily site tonnage (kg/day):	0.0055
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.6
Release fraction to wastewater from wide dispersive use:	0.05
Release fraction to soil from wide dispersive use (regional only):	0.05
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage	96

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

treatment (%)	
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.5E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.	
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	
Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001155</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as a fuel - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC13 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.12c.v1
<b>Scope of process</b>	Covers consumer uses in liquid fuels.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Sub-stance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm2):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	365
covers use up to (times/day of use):	1
Covers use up to (hours/event):	8
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m3 Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Fuels Liquid: Automotive Refuelling.	Covers concentrations up to 100 %
	covers use up to 52 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210.00 cm2
	For each use event, covers amount up to 37,500 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 0.05 hours/event

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Fuels Liquid Scooter Refuelling.	Covers concentrations up to 100 %
	covers use up to 52 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210 cm2
	For each use event, covers amount up to 3,750 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 0.03 hours/event
Fuels Liquid, Garden Equipment - Use.	Covers concentrations up to 100 %
	covers use up to 26 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 750 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 2.00 hours/event
Fuels Liquid: Garden Equipment - Refuelling.	Covers concentrations up to 100 %
	covers use up to 26 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 420.00 cm2
	For each use event, covers amount up to 750 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Home space heater fuel.	Covers concentrations up to 100 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210.00 cm2
	For each use event, covers amount up to 3,000 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.03 hours/event
Fuels Liquid: Lamp oil.	Covers concentrations up to 100 %
	covers use up to 52 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210.00 cm2
	For each use event, covers amount up to 100 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0.01 hours/event

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	29
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.015
Maximum daily site tonnage (kg/day):	0.04
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.01
Release fraction to wastewater from wide dispersive use:	0.00001
Release fraction to soil from wide dispersive use (regional only):	0.00001
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2.0E+03
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
Combustion emissions limited by required exhaust emission controls. Waste combustion emissions considered in regional exposure assessment.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.	

<b>Section 3.2 -Environment</b>	
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version  
9.0

Revision Date:  
07.03.2023

SDS Number:  
800001013576

Date of last issue: 23.08.2022  
Print Date 08.03.2023

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Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org/en/reach-for-industries-libraries.html">http://cefic.org/en/reach-for-industries-libraries.html</a> ).
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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

### Exposure Scenario - Consumer

<b>300000001156</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Functional Fluids - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC16, PC17 <b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOc SpERC 9.13c.v1
<b>Scope of process</b>	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
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<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
Physical form of product	Liquid, vapour pressure > 10 Pa
Concentration of the Substance in Mixture/Article	Unless stated otherwise.
	Covers concentration up to (%): 100 %
<b>Amounts Used</b>	
Unless stated otherwise.	
for each use event, covers amount up to (g):	13,800
covers skin contact area (cm2):	857.5
<b>Frequency and Duration of Use</b>	
Unless stated otherwise.	
Covers use up to (days/year):	4
covers use up to (times/day of use):	1
Covers use up to (hours/event):	0.17
<b>Other Operational Conditions affecting Exposure</b>	
Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m3 Covers use under typical household ventilation.	

<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
Heat transfer fluids Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version 9.0      Revision Date: 07.03.2023      SDS Number: 800001013576      Date of last issue: 23.08.2022  
Print Date 08.03.2023

	Covers exposure up to 0.17 hours/event
Hydraulic fluids Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Predominantly hydrophobic.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	0.1
Regional use tonnage (tonnes/year):	2
Fraction of Regional tonnage used locally:	0.0005
Annual site tonnage (tonnes/year):	0.001
Maximum daily site tonnage (kg/day):	0.0027
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	365
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from wide dispersive use (regional only):	0.05
Release fraction to wastewater from wide dispersive use:	0.025
Release fraction to soil from wide dispersive use (regional only):	0.025
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3.0E+02
Assumed domestic sewage treatment plant flow (m3/d)	2,000
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise	

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## SBP 60/95 LNH

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2022
9.0	07.03.2023	800001013576	Print Date 08.03.2023

indicated.

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).