# **SBP 40/65 LNH**

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SBP 40/65 LNH

Product code : Q5113

Synonyms : Hydrocarbons, C6, Isoalkanes, <5% n-hexane and n-pentane

CAS-No. : 64742-49-0

Manufacturer or supplier's details

Supplier :

SHELL EASTERN CHEMICALS (S)

A REGISTERED BUSINESS OF SHELL EASTERN

TRADING (PTE) LTD (UEN:198902087C)

9 North Buona Vista Drive, #07-01

The Metropolis Tower 1 Singapore 138588

Singapore

Telephone : +65 6384 8737 Telefax : +65 6384 8454

Email Contact for Safety Data

Sheet

Emergency telephone : +800 2537 8747 (ALERT SGS- toll Free) or +65 6542 9595

number (ALERT SGS)

Recommended use of the chemical and restrictions on use

Restrictions on use : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Flammable liquids : Category 2 Skin irritation : Category 2

Specific target organ toxicity - :

single exposure

: Category 3 (Narcotic effects)

Aspiration hazard : Category 1 Short-term (acute) aquatic : Category 2

hazard

Long-term (chronic) aquatic : Category 2

hazard

#### Other hazards which do not result in classification

No specific hazards under normal use conditions.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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Hazardous components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Not Assigned	Flam. Liq.2; H225 Asp. Tox.1; H304 Skin Irrit.2; H315 STOT SE3; H336 Aquatic Acute2; H401 Aquatic Chronic2; H411	<= 70
pentane	109-66-0	Flam. Liq.1; H224 Asp. Tox.1; H304 STOT SE3; H336 Aquatic Acute2; H401	<= 70

For explanation of abbreviations see section 16.

### **Further information**

#### Contains:

Chemical name	Identification number	Concentration (% w/w)
n-Hexane	110-54-3	>= 0 - < 5

### 4. FIRST-AID MEASURES

General advice : Not expected to be a health hazard when used under normal

conditions.

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.

Flush eye with copious quantities of water. In case of eye contact

Remove contact lenses, if present and easy to do. Continue

rinsina.

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.

Most important symptoms : Breathing of high vapour concentrations may cause central

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### **5. FIRE-FIGHTING MEASURES**

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.

Specific hazards during

firefighting

: Clear fire area of all non-emergency personnel. Hazardous combustion products may include:

Causes central nervous system depression.

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.

Will float and can be reignited on surface water.

Specific extinguishing

methods

Standard procedure for chemical fires.

Keep adjacent containers cool by spraying with water.

Special protective equipment : Proper protective equipment including chemical resistant

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for firefighters

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).

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : 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.

: 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.

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.

Methods and materials for containment and 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.

Additional advice : 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.

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#### 7. HANDLING AND STORAGE

General Precautions : 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.

Avoidance of contact : Strong oxidising agents.

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 handling 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 (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 7 m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or

handling operations.

Refer to guidance under Handling section.

Storage

Conditions for safe storage : Refer to section 15 for any additional specific legislation

covering the packaging and storage of this product.

Other data : Storage Temperature:

Ambient.

Bulk storage tanks should be diked (bunded).

Locate tanks away from heat and other sources of ignition.

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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.

: Suitable material: For containers, or container linings use mild Packaging material

steel, stainless steel., For container paints, use epoxy paint,

zinc silicate paint.

Unsuitable material: Avoid prolonged contact with natural,

butyl or nitrile rubbers.

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

near containers.

Specific use(s) : Not applicable

> 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

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isohexanes	Not Assigned	TWA	900 mg/m3	OEL based on European Hydrocarbon Solvents Producers (CEFIC- HSPA) methodology.

### Biological occupational exposure limits

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No biological limit allocated.

### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

### **Engineering measures**

: Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Eye washes and showers for emergency use.

Firewater monitors and deluge systems are recommended. 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 for subsequent recycle.

### Personal protective equipment

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#### Protective measures

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

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 AX

boiling point ≤65°C (149°F)].

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: Viton. Incidental contact/Splash protection: Nitrile rubber. PVC. 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 shortterm/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. 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.

Eye protection : Wear goggles for use against liquids and gas.

> If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide

adequate eye protection.

: Chemical resistant gloves/gauntlets, boots, and apron. Skin and body protection

Protective clothing approved to EU Standard EN14605.

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Thermal hazards : Not applicable

Hygiene measures : Wash hands before eating, drinking, smoking and using the

Launder contaminated clothing before re-use.

Do not ingest. If swallowed, then seek immediate medical

assistance.

**Environmental exposure controls** 

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

vapour.

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : colourless Odour : Paraffinic

Odour Threshold : Data not available рΗ : Not applicable

pour point : Typical -150 °C / -238 °F

Melting point/range Data not available

Boiling point/boiling range : Typical 44 - 62 °C / 111 - 144 °F

Flash point Typical -43 °C / -45 °F

Method: IP 170

Evaporation rate : 9.6

Method: ASTM D 3539, nBuAc=1

Method: DIN 53170, di-ethyl ether=1

: Data not available Flammability (solid, gas)

Upper explosion limit : 7.5 %(V)

Lower explosion limit : 1.1 %(V)

Vapour pressure : 16 kPa (0 °C / 32 °F)

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33 kPa (20 °C / 68 °F)

115 kPa (50 °C / 122 °F)

Relative vapour density : 3

Relative density : Data not available

Density : Typical 658 kg/m3 (15  $^{\circ}$ C / 59  $^{\circ}$ F)

Method: ASTM D4052

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: log Pow: 1.1 - 7.5

Auto-ignition temperature : 392 °C / 738 °F

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : Typical 0.41 mm2/s (25 °C / 77 °F)

Typical 0.57 mm2/s (0 °C / 32 °F)

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

Oxidizing properties : Not applicable

Surface tension : Typical 16.8 mN/m, 20 °C / 68 °F, ASTM D-971

Conductivity :  $< 0.09 \text{ pS/m at } 20 \,^{\circ}\text{C} / 68 \,^{\circ}\text{F}$ 

Method: ASTM D-4308 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 semiconductive if its conductivity is below 10,000 pS/m., A number of factors, for example liquid temperature, presence of

of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence

the conductivity of a liquid

Particle size : Data not available

Molecular weight : 82 g/mol

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10. STABILITY AND REACTIVITY

Reactivity : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

: No hazardous reaction is expected when handled and stored Chemical stability

according to provisions Stable under normal conditions of use.

Possibility of hazardous

reactions

: Reacts with strong oxidising agents.

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

In certain circumstances product can ignite due to static

electricity.

Incompatible materials : Strong oxidising agents.

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.

### 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing, and/or similar

products, and/or components.

exposure

Information on likely routes of : Exposure may occur via inhalation, ingestion, skin absorption,

skin or eye contact, and accidental ingestion.

**Acute toxicity** 

**Product:** 

Acute oral toxicity : LD50 Rat: > 2000 mg/kg

Remarks: Low toxicity:

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

: LC50 Rat: > 20 mg/l Acute inhalation toxicity

Remarks: Low toxicity:

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

Acute dermal toxicity : LD50 Rat: > 2000 mg/kg

Remarks: Low toxicity:

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

Components:

pentane:

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Acute oral toxicity : LD50 Rat, male and female: > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : LC50 Rat, male and female: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Remarks: Based on available data, the classification criteria

are not met.

#### Skin corrosion/irritation

#### **Product:**

Remarks: Irritating to skin.

### **Components:**

#### pentane:

Species: Rabbit

Method: Test(s) equivalent or similar to OECD Test Guideline 404

Remarks: Slightly irritating to skin., Insufficient to classify.

## Serious eye damage/eye irritation

#### **Product:**

Remarks: Not irritating to eye.

#### **Components:**

### pentane:

Species: Rabbit

Method: OECD Test Guideline 405

Remarks: Slightly irritating., Insufficient to classify.

## Respiratory or skin sensitisation

#### **Product:**

Remarks: Not a sensitiser.

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

### Components:

#### pentane:

Species: Guinea pig

Method: OECD Test Guideline 406

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

### Germ cell mutagenicity

### **Product:**

: Remarks: No evidence of mutagenic activity.

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Components:

pentane:

Genotoxicity in vitro : Method: Test(s) equivalent or similar to OECD Guideline 471

Remarks: Based on available data, the classification criteria

are not met.

: Method: Directive 67/548/EEC, Annex V, B.10.

Remarks: Based on available data, the classification criteria

are not met.

: Test species: RatMethod: Directive 67/548/EEC, Annex V,

B.12.

Remarks: Based on available data, the classification criteria

are not met.

Carcinogenicity

**Product:** 

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

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

## Reproductive toxicity

**Product:** 

:

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

fertility.

Components:

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

pentane:

: Species: Rat

Sex: male and female Application Route: Inhalation

Method: Equivalent or similar to OECD Test Guideline 416 Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal development

: Species: Rat, female

Application Route: Oral

Method: OECD Test Guideline 414

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

### STOT - single exposure

### **Product:**

Target Organs: Central nervous system

Remarks: High concentrations may cause central nervous system depression resulting in

headaches, dizziness and nausea.

### Components:

#### pentane:

Exposure routes: Inhalation

Target Organs: Central nervous system Remarks: May cause drowsiness or dizziness.

#### STOT - repeated exposure

#### **Product:**

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to humans, Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

# **Components:**

#### pentane:

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

## Repeated dose toxicity

### **Components:**

## pentane:

Rat, male and female: Application Route: Inhalation Test atmosphere: Gas

Method: OECD Test Guideline 413

Target Organs: No specific target organs noted

# **Aspiration toxicity**

### **Product:**

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

## Components:

## pentane:

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

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#### **Further information**

#### **Product:**

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

## **Components:**

pentane:

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

#### 12. ECOLOGICAL INFORMATION

Basis for assessment : Incomplete ecotoxicological data are available for this product.

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

#### **Ecotoxicity**

### **Product:**

Toxicity to fish (Acute

toxicity) Remarks: Data not available

Toxicity to crustacean (Acute

toxicity)

: LL50 : > 1 - 10 mg/l

Remarks: Toxic

Toxicity to algae/aquatic plants (Acute toxicity)

: EL50 : > 10 - 100 mg/l Remarks: Harmful

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to crustacean

(Chronic toxicity)

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Data not available

: Remarks: Data not available

#### Components:

# pentane:

Toxicity to fish (Acute

toxicity)

: LC50 (Oncorhynchus mykiss (rainbow trout)): 4.26 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Toxic

 $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to crustacean (Acute

toxicity)

: EC50 (Daphnia magna (Water flea)): 2.7 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD Guideline 202

Remarks: Toxic

 $LL/EL/IL50 > 1 \le 10 \text{ mg/l}$ 

Toxicity to algae/aquatic plants (Acute toxicity)

: EC50 (Scenedesmus capricornutum (fresh water algae)): 10.7

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Harmful

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LL/EL/IL50 >10 <= 100 mg/l

Toxicity to microorganisms

(Acute toxicity)

: NOEL (Tetrahymena pyriformis): 23.7 mg/l

Exposure time: 48 h

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: NOEC/NOEL >100 mg/l

Toxicity to fish (Chronic

toxicity)

: NOELR: 6.165 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l

Toxicity to : NOELR: 10.76 mg/l crustacean(Chronic toxicity) Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: no data available

## Persistence and degradability

**Product:** 

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

Readily biodegradable.

Components:

pentane:

Biodegradability : Biodegradation: 87 %

Exposure time: 28 d

Method: Test(s) equivalent or similar to OECD Guideline 301

F

Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

## **Bioaccumulative potential**

**Product:** 

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

Partition coefficient: n-

octanol/water
Components:
pentane:
Bioaccumulation

: log Pow: 1.1 - 7.5

: Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): 171

Method: Based on quantitative structure-activity relationship

(QSAR) modelling

Remarks: Does not bioaccumulate significantly.

#### Mobility in soil

# **Product:**

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Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil

particles and will not be mobile.

Components: pentane :

Mobility : Remarks: Floats on water., If the product enters soil, one or

more constituents will or may be mobile and may contaminate

groundwater.

Other adverse effects

**Components:** 

pentane :

Results of PBT and vPvB

assessment

: The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

Additional ecological

information

In view of the high rate of loss from solution, the product is

unlikely to pose a significant hazard to aquatic life.

#### 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : 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.

Do not dispose into the environment, in drains or in water

courses

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. 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.

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.

### 14. TRANSPORT INFORMATION

# **International Regulations**

ADR

UN number : 1268

# **SBP 40/65 LNH**

Version 1.3 Revision Date 30.10.2020 Print Date 03.09.2022

Proper shipping name PETROLEUM DISTILLATES, N.O.S.

3 Class Packing group Ш Labels 3 Hazard Identification Number 33 Environmentally hazardous : yes

**IATA-DGR** 

UN/ID No. : UN 1268

Proper shipping name : Petroleum distillates, n.o.s.

: 3 Class Packing group Ш Labels : 3

**IMDG-Code** 

**UN** number : UN 1268

: PETROLEUM DISTILLATES, N.O.S. Proper shipping name

(NAPHTHA)

Class 3 Ш Packing group Labels : 3 Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable Pollution category Not applicable Ship type Product name : Not applicable

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.

## 15. REGULATORY INFORMATION

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

## **Local Regulations**

Workplace Safety and Health Act & Workplace	This product is subject to the SDS, Labelling,
Safety and Health (General Provision)	PEL and other requirements in the Act/
Regulations	Regulations.

Fire Safety Act and Fire Safety (Petroleum &	This product is subject to the requirements in
Flammable Materials) Regulations	the Act/ Regulations.

Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives)	This product is subject to the requirements in the Act/ Regulations.
Regulations	

Environmental Protection and Management Act | This product is not subject to the requirements

### **SBP 40/65 LNH**

Version 1.3	Revision Date 3	30.10.2020	Print Date 03.09.2022
and Environmental Protection	n and i	in the Act/Regulations.	
Management (Hazardous Substances)		_	
Regulations	·		

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

#### Other international regulations

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

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

#### 16. OTHER INFORMATION

H411

#### **Full text of H-Statements**

H224	Extremely flammable liquid and vapour.
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.
H401	Toxic to aquatic life.

#### Toxic to aquatic life with long lasting effects. Full text of other abbreviations

Aquatic Acute Short-term (acute) aquatic hazard 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

## **Abbreviations and Acronyms**

AICS - Australian Inventory of Chemical Substances: AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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

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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; Nch -Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### **Further information**

Training advice : Provide adequate information, instruction and training for

operators.

Other information : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

Sources of key data used to compile the Safety Data

Sheet

: The guoted 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 date base, EC 1272 regulation, etc).

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.

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