

Version 4.1 Revision Date 2011-12-16

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Synfluid® PAO 6 cSt

Material : 1111741, 1111740, 1111734, 1079874, 1079931, 1079667

EC-No.Registration number

Chemical Name	CAS-No. Index-No.	Legal Entity Registration number
1-Decene Homopolymer Hydrogenated	68037-01-4	Chevron Phillips Chemical Company LP 01-2119486452-34-0000
1-Decene Homopolymer Hydrogenated	68037-01-4	Chevron Phillips Chemicals International NV 01-2119486452-34-0006

Relevant Identified Uses

Supported

Manufacture

Distribution

Use as an intermediate

Formulation

Use in coatings - industrial

Use in coatings - professional

Use in Coatings - Consumer

Lubricants - Industrial Lubricants - Professional Lubricants - Consumer

Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils - Professional

Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer

Use in polymer production – industrial

Agrochemical uses Agrochemical uses Other consumer uses

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Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Brusselsesteenweg 355

B-3090 Overijse

Belgium

MSDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:msds@cpchem.com

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com Website : www.CPChem.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB

Mixtures

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Hazardous ingredients

Chemical Name	CAS-No. EINECS-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
1-Decene	68037-01-4			100
Homopolymer				
Hydrogenated				
Contains no hazardous ingredients according to GHS. :				

EC-No.Registration number

Chemical Name	CAS-No. EINECS-No.	Registration number
1-Decene Homopolymer Hydrogenated	68037-01-4	Chevron Phillips Chemical Company LP 01-2119486452-34-0000
1-Decene Homopolymer Hydrogenated	68037-01-4	Chevron Phillips Chemicals International NV 01-2119486452-34-0006

4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Remove contact lenses. Protect unharmed eye. If eye

irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Flash point : 238 °C (460 °F)

Method: Cleveland Open Cup

Autoignition temperature : 354 °C (669 °F)

Special protective equipment for fire-fighters

: Wear self contained breathing apparatus for fire fighting if

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

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Hazardous decomposition

products

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in

suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: Electrical installations / working materials must comply with the

technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under

normal atmospheric pressure.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the

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specific work-place. Wear as appropriate:. Lightweight

protective clothing. Safety shoes.

Hygiene measures : Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Color : Clear, Colorless

Odor : Odorless

Safety data

Flash point : 238 °C (460 °F)

Method: Cleveland Open Cup

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : no

Autoignition temperature : 354 °C (669 °F)

Molecular formula : UVCB

Molecular Weight : Varies

pH : Not applicable

Melting point/range : Not applicable

Boiling point/boiling range : 419 °C (786 °F)

Vapor pressure : 0,70 MMHG

at 149 °C (300 °F)

Relative density : 0,83, 15,6 °C(60,1 °F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 30,5 cSt

at 40 °C (104 °F)

Relative vapor density : 10

(Air = 1.0)

Evaporation rate : No data available

10. STABILITY AND REACTIVITY

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Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Other data : No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Synfluid® PAO 6 cSt

Acute oral toxicity : LD50: > 5.000 mg/kg

Species: rat

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt

Acute inhalation toxicity : LC50: > 5,2 mg/l

Exposure time: 4 h

Species: rat

Test atmosphere: dust/mist

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt

Acute dermal toxicity : LD50 Dermal: > 2.000 mg/kg

Species: rat

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt

Skin irritation : No skin irritation

Synfluid® PAO 6 cSt

Eye irritation : No eye irritation

Synfluid® PAO 6 cSt

Sensitization : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Decene Homopolymer

: Species: rat

Application Route: Oral Hydrogenated

Dose: 0, 8000, 20000, 50000 ppm

Exposure time: 28 day Number of exposures: daily

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NOEL: 6.245 mg/kg

Method: OECD Test Guideline 407

Species: rat

Application Route: oral gavage Dose: 0, 1000, 7000, 50000 ppm Exposure time: 13 weeks Number of exposures: daily NOEL: 4.159,4 mg/kg

Method: OCED Guideline 408

Carcinogenicity

1-Decene Homopolymer

Hydrogenated

: Remarks: This information is not available.

Reproductive toxicity

1-Decene Homopolymer

Hydrogenated

: Species: rat

Sex: male and female

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg Number of exposures: daily Test period: 10 weeks

Method: OECD Test Guideline 415 NOAEL Parent: 1.000 mg/kg

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Teratogenicity

: This information is not available.

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Aspiration toxicity

: No aspiration toxicity classification.

CMR effects

1-Decene Homopolymer

Hydrogenated

Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: > 750 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates.

1-Decene Homopolymer

Hydrogenated

: EL50: > 1.000 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

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Toxicity to algae : EC50: > 1.000 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

Elimination information (persistence and degradability)

Bioaccumulation

1-Decene Homopolymer

Hydrogenated

: This material is not expected to bioaccumulate.

Biodegradability : This material is not expected to be readily biodegradable.

Expected to be inherently biodegradable.

Results of PBT assessment

1-Decene Homopolymer

Hydrogenated

Additional ecological

information

: Non-classified PBT substance, Non-classified vPvB substance

: This material is not expected to be harmful to aquatic

organisms.

13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

US DOT (United States Department of Transportation)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (International Maritime Dangerous Goods)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR

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TRANSPORTATION BY THIS AGENCY.

IATA (International Air Transport Association)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (Agreement on Dangerous Goods by Road (Europe))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (Regulations concerning the International Transport of Dangerous Goods (Europe))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

15. REGULATORY INFORMATION

National legislation

Chemical Safety Assessment

Ingredients Dec-1-ene, A Chemical Safety Assessment

has been carried out for this oligomers,

hydrogenated substance.

Major Accident Hazard

Update: 2003 Legislation Directive 96/82/EC does not apply

: 96/82/EC

Water contaminating class

(Germany)

: WGK 1 slightly water endangering

Description of the classification procedure for all materials, which are not named in the appendices 1 and 2, on the basis of R-sentence-classifications of the European dangerous

materials

Notification status

Europe REACH : On the inventory, or in compliance with the inventory United States of America US.TSCA : On the inventory, or in compliance with the inventory Canada DSL : On the inventory, or in compliance with the inventory

Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

Notification number: HSR002606

: On the inventory, or in compliance with the inventory Japan ENCS

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Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Further information

Legacy MSDS Number : 3333

NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material 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.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philipines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Compositon,

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	Inventory		Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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	MATERIAL SAFETY DATA SHEET
Synfluid® PAO 6 cSt	
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Annex	
Short title of Exposure Scenario:	
Sector of use	: SU0-1: Other activity related to manufacturing of chemical products
Product category	: PC0: Other (use UCN codes)
Process category	: PROC0: Other Process or activity
Article category	: AC 0: Other Articles
Environmental release category	: ERC2: Formulation of preparations
3. Exposure estimation and refe	rence to its source
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries se
Short title of Exposure Scenario:	
Sector of use	: SU0-1: Other activity related to manufacturing of chemical
Product category	products : PC0: Other (use UCN codes)
Process category	 PROC5: Mixing or blending in batch processes for formulation of mixtures and articles (multistage and/or significant contact) Industrial setting;
Article category	: AC 0: Other Articles
3. Exposure estimation and refe	erence to its source
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries se
1. Short title of Exposure Scenario: N	anufacture
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sector of use	: SU 3, SU8, SU9: Industrial Manufacturing (all), Manufacture of bulk, large scale chemicals (including petroleum products),

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0(MATERIAL SAFETY DATA SHEET
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Process category	 PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or
	formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent
Environmental release category	ERC1, ERC4: Manufacture of substances, Industrial use of processing aids in processes and products, not becoming part of articles
Further information	Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities
Manufacture of substances, Indus products, not becoming part of ar	ERC1, ERC4: strial use of processing aids in processes and ticles
products, not becoming part of art Technical conditions and measures /	trial use of processing aids in processes and ticles
Technical conditions and measures / Remarks 2.2 Contributing scenario controlli PROC4, PROC8, PROC8b, PROC1	Organizational measures Not applicable ing worker exposure for: PROC1, PROC2, PROC3, 5: Use in closed process, no likelihood of exposure,
Technical conditions and measures / Remarks 2.2 Contributing scenario controlli PROC4, PROC8, PROC8b, PROC1 Use in closed, continuous process batch process (synthesis or formulate opportunity for exposure are (charging/discharging) from/to ves Industrial or non-industrial setting discharging) from/ to vessels/ larg	Organizational measures Not applicable ing worker exposure for: PROC1, PROC2, PROC3,
Technical conditions and measures / Remarks 2.2 Contributing scenario controlli PROC4, PROC8, PROC8b, PROC1 Use in closed, continuous process batch process (synthesis or formulate opportunity for exposure are (charging/discharging) from/to ves Industrial or non-industrial setting discharging) from/ to vessels/ larg	Organizational measures Not applicable ing worker exposure for: PROC1, PROC2, PROC3, 5: Use in closed process, no likelihood of exposure, s with occasional controlled exposure, Use in closed plation), Use in batch and other process (synthesis) rises, Transfer of substance or mixture ssels(large containers at non dedicated facilities; g;, Transfer of substance or preparation (charging/
Technical conditions and measures / Remarks 2.2 Contributing scenario controlli PROC4, PROC8, PROC8b, PROC1 Use in closed, continuous process batch process (synthesis or formulate opportunity for exposure and (charging/discharging) from/to vesting the control of the control	Organizational measures Not applicable ing worker exposure for: PROC1, PROC2, PROC3, 5: Use in closed process, no likelihood of exposure, s with occasional controlled exposure, Use in closed plation), Use in batch and other process (synthesis) rises, Transfer of substance or mixture ssels(large containers at non dedicated facilities; g;, Transfer of substance or preparation (charging/
Technical conditions and measures / Remarks 2.2 Contributing scenario controlli PROC4, PROC8, PROC8b, PROC1 Use in closed, continuous process batch process (synthesis or formulate opportunity for exposure and (charging/discharging) from/to vesting the control of the control	Organizational measures Not applicable ing worker exposure for: PROC1, PROC2, PROC3, 5: Use in closed process, no likelihood of exposure, s with occasional controlled exposure, Use in closed plation), Use in batch and other process (synthesis) rises, Transfer of substance or mixture ssels(large containers at non dedicated facilities; process, Transfer of substance or preparation (charging/ pe containers at dedicated facilities, Use as laboratory Not applicable

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Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario:

Sector of use : **SU0-1:** Other activity related to manufacturing of chemical

products

Product category : **PC0:** Other (use UCN codes)

Process category : **PROC6:** Calendering operations

Article category : **AC 0:** Other Articles

3. Exposure estimation and reference to its source

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

1. Short title of Exposure Scenario: Distribution

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC15:** Use as laboratory reagent

Environmental release category : ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,

ERC6d, ERC7: Manufacture of substances, Formulation of preparations, Formulation in materials, Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another

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Further information :	substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems 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.
Formulation of preparations, Formulation of preparations, Formulation processes and products, not be inclusion into or onto a matrix, Indusubstance (use of intermediates), luse of monomers for manufacture of	ERC1, ERC2, ERC3, ic, ERC6d, ERC7: Manufacture of substances, ulation in materials, Industrial use of processing aids coming part of articles, Industrial use resulting in ustrial use resulting in manufacture of another industrial use of reactive processing aids, Industrial of thermoplastics, Industrial use of process esses in production of resins, rubbers, polymers, seed systems
Technical conditions and measures / C Remarks :	Organizational measures Not applicable
PROC4, PROC8, PROC8b, PROC9, exposure, Use in closed, continuou in closed batch process (synthesis (synthesis) where opportunity for e (charging/discharging) from/to vess Industrial or non-industrial setting; discharging) from/ to vessels/ large	ng worker exposure for: PROC1, PROC2, PROC3, PROC15: Use in closed process, no likelihood of us process with occasional controlled exposure, Use or formulation), Use in batch and other process exposure arises, Transfer of substance or mixture sels(large containers at non dedicated facilities; , Transfer of substance or preparation (charging/e containers at dedicated facilities, Transfer of I containers (dedicated filling line, including nt
Amount used Remarks :	Not applicable
3. Exposure estimation and referen	ce to its source
Remarks: Not applicable	
4. Guidance to Downstream User to by the Exposure Scenario	evaluate whether he works inside the boundaries set
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Not applicable

1. Short title of Exposure Scenario: Use as an intermediate

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3, SU8, SU9: Industrial Manufacturing (all), Manufacture

of bulk, large scale chemicals (including petroleum products),

Manufacture of fine chemicals

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC15: Use as laboratory reagent

Environmental release category : **ERC6a**: Industrial use resulting in manufacture of another

substance (use of intermediates)

Further information : Use as an isolated intermediate under strictly controlled

conditions

ERC6a: Industrial use

resulting in manufacture of another substance (use of intermediates)

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent

Amount used

Remarks : Not applicable

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3. Exposure estimation and refe	erence to its source
Remarks: Not applicable	
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario:	
Sector of use	 SU0-1: Other activity related to manufacturing of chemical products PC0: Other (use UCN codes)
Product category	·
Process category	: PROC7: Industrial spraying
Article category	: AC 0: Other Articles
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
Short title of Exposure Scenario:	
Sector of use	: SU0-1: Other activity related to manufacturing of chemical products
Product category	: PC0: Other (use UCN codes)
Process category	 PROC8: Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;
Article category	: AC 0: Other Articles
3. Exposure estimation and refe	erence to its source
4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
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1. Short title of Exposure Scenario: Formulation

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3, SU 10: Industrial Manufacturing (all), Formulation

[mixing] of preparations and/ or re-packaging (excluding

alloys)

Process category : **PROC1**: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

PROC14: Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;

PROC15: Use as laboratory reagent

Environmental release category

Further information

: **ERC2:** Formulation of preparations

: Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage,

materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

ERC2: Formulation of

preparations

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC8, PROC8b, PROC9, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial

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setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;, Use as laboratory reagent

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use in coatings – industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC10:** Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC14:** Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;

PROC15: Use as laboratory reagent

Environmental release category : ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

Further information : 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,

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application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

ERC4: Industrial use

of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Mixing or blending in batch processes for formulation of mixtures and articles (multistage and/or significant contact) Industrial setting;, Industrial spraying, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;, Use as laboratory reagent

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario:

Sector of use : **SU0-1:** Other activity related to manufacturing of chemical

products

Product category : **PC0**: Other (use UCN codes)

Process category : **PROC9:** Transfer of substance or preparation into small

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containers (dedicated filling line, including weighing)

Article category : AC 0: Other Articles

3. Exposure estimation and reference to its source

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

1. Short title of Exposure Scenario: Use in coatings - professional

Main User Groups : **SU 22:** Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Public domain (administration, education,

entertainment, services, craftsmen)

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC15: Use as laboratory reagent

PROC19: Hand-mixing with intimate contact and only PPE

available

Environmental release category : **ERC8a**, **ERC8d**: Wide dispersive indoor use of processing

aids in open systems, Wide dispersive outdoor use of

processing aids in open systems

Further information : 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.

ERC8a, ERC8d: Wide

dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

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Technical conditions and measure Remarks	es / Organizational measures : Not applicable	
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Mixing or blending in batch processes for formulation of mixtures and articles (multistage and/or significant contact) Industrial setting;, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Use as laboratory reagent, Hand-mixing with intimate contact and only PPE available		
Amount used Remarks	: Not applicable	
3. Exposure estimation and ref	erence to its source	
Remarks: Not applicable		
4. Guidance to Downstream Us by the Exposure Scenario	er to evaluate whether he works inside the boundaries set	
Not applicable 1. Short title of Exposure Scenario:		
Sector of use	: SU0-1: Other activity related to manufacturing of chemical	
Product category	products : PC24: Lubricants, greases, release products	
Process category	: PROC0: Other Process or activity	
Article category	: AC 0: Other Articles	

3. Exposure estimation and reference to its source

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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

1. Short title of Exposure Scenario:

Sector of use : SU 10: Formulation [mixing] of preparations and/ or re-

packaging (excluding alloys)

Product category : **PC0**: Other (use UCN codes)

Process category : **PROC0:** Other Process or activity

Article category : AC 0: Other Articles

3. Exposure estimation and reference to its source

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

1. Short title of Exposure Scenario: **Use in Coatings - Consumer**

Main User Groups : **SU 21:** Consumer uses: Private households (= general public

= consumers)

Sector of use : **SU 21:** Consumer uses: Private households (= general public

= consumers)

Product category : **PC1:** Adhesives, sealants

PC4: Anti-Freeze and de-icing products

PC8: Biocidal products (e.g. Disinfectants, pest control) **PC9a:** Coatings and paints, thinners, paint removers **PC9b:** Fillers, putties, plasters, modelling clay

PC9c: Finger paints

PC15: Non-metal-surface treatment products

PC18: Ink and toners

PC23: Leather tanning, dye, finishing, impregnation and care

products

PC24: Lubricants, greases, release products

PC31: Polishes and wax blends

PC34: Textile dyes, finishing and impregnating productsE

including bleaches and other processing aids

Environmental release category : ERC8a, ERC8d: Wide dispersive indoor use of processing

aids in open systems, Wide dispersive outdoor use of

processing aids in open systems

Further information : 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.

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dispersive indoor use of proce of processing aids in open sys	ERC8a, ERC8d: Wide essing aids in open systems, Wide dispersive outdoor use stems
Technical conditions and measure Remarks	res / Organizational measures : Not applicable
PC9b, PC9c, PC15, PC18, PC2 de-icing products, Biocidal pro paints, thinners, paint remove Non-metal-surface treatment production and care products	trolling consumer exposure for: PC1, PC4, PC8, PC9a, 3, PC24, PC31, PC34: Adhesives, sealants, Anti-Freeze and oducts (e.g. Disinfectants, pest control), Coatings and rs, Fillers, putties, plasters, modelling clay, Finger paints, products, Ink and toners, Leather tanning, dye, finishing, ets, Lubricants, greases, release products, Polishes and hing and impregnating productsE including bleaches and
Amount used Remarks	: Not applicable
3. Exposure estimation and re	ference to its source
Remarks: Not applicable	
4. Guidance to Downstream Usby the Exposure Scenario	ser to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario:	
Sector of use	: SU 22: Public domain (administration, education, entertainment, services, craftsmen)
Product category	: PC0 : Other (use UCN codes)
Process category	: PROC0: Other Process or activity
Article category	: AC 0: Other Articles
3. Exposure estimation and re	ference to its source

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4. Guidance to Downstream User t by the Exposure Scenario	to evaluate whether he works inside the boundaries set	
1. Short title of Exposure Scenario: Lub	ricants - Industrial	
Main User Groups :	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites	
Sector of use : Process category :	SU 3: Industrial Manufacturing (all) PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation)	
	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	
	PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities : Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing	
	PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions	
Environmental release category :	ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems	
Further information :	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	
ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems		
Technical conditions and measures / Organizational measures Remarks : Not applicable		
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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Industrial spraying, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Lubricants - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly

open process

PROC18: Greasing at high energy conditions

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	PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
Environmental release category :	ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Further information :	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.
dispersive outdoor use of processi	ERC8a, ERC8d, door use of processing aids in open systems, Wide ng aids in open systems, Wide dispersive indoor use Vide dispersive outdoor use of substances in closed
Technical conditions and measures / O Remarks :	Organizational measures Not applicable
PROC4, PROC8, PROC8b, PROC9, PROC20: Use in closed process, no process with occasional controlled formulation), Use in batch and other arises, Transfer of substance or mix containers at non dedicated facilities substance or preparation (charging dedicated facilities, Transfer of sub (dedicated filling line, including weight spraying, Treatment of articles by deconditions and in partly open process.	g worker exposure for: PROC1, PROC2, PROC3, PROC10, PROC11, PROC13, PROC17, PROC18, b likelihood of exposure, Use in closed, continuous exposure, Use in closed batch process (synthesis or expresses) where opportunity for exposure exture (charging/discharging) from/to vessels(large es; Industrial or non-industrial setting;, Transfer of extraction of the discharging) from/ to vessels/ large containers at estance or preparation into small containers (ghing), Roller application or brushing, Non industrial lipping and pouring, Lubrication at high energy ess, Greasing at high energy conditions, Heat and exe, professional use but closed systems
Amount used Remarks :	Not applicable
3. Exposure estimation and referen	ce to its source
Remarks: Not applicable	
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Version 4.1 4. Guidance to Downstream Use	Revision Date 2011-12-10 er to evaluate whether he works inside the boundaries set
by the Exposure Scenario	
Not applicable 1. Short title of Exposure Scenario: L	ubricants - Consumer
Main User Groups	: SU 21: Consumer uses: Private households (= general public
Sector of use	= consumers): SU 21: Consumer uses: Private households (= general public
Product category	 = consumers) : PC1: Adhesives, sealants PC24: Lubricants, greases, release products PC31: Polishes and wax blends
Environmental release category Further information	 ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems 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.
dispersive outdoor use of proce of substances in closed system	ERC8a, ERC8d, e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use s, Wide dispersive outdoor use of substances in closed
dispersive outdoor use of processor substances in closed systems Fechnical conditions and measure	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use is, Wide dispersive outdoor use of substances in closed is / Organizational measures
dispersive outdoor use of proce of substances in closed system systems	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use is, Wide dispersive outdoor use of substances in closed
dispersive outdoor use of processor substances in closed systems Fechnical conditions and measure Remarks	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use is, Wide dispersive outdoor use of substances in closed is / Organizational measures
dispersive outdoor use of process of substances in closed systems Technical conditions and measure Remarks 2.2 Contributing scenario contributing scenario contributions, sealants, Lubricants	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use is, Wide dispersive outdoor use of substances in closed s / Organizational measures : Not applicable olling consumer exposure for: PC1, PC24, PC31:
dispersive outdoor use of process of substances in closed systems Technical conditions and measure Remarks 2.2 Contributing scenario contributing scenario contributions, sealants, Lubricants Amount used	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use s, Wide dispersive outdoor use of substances in closed s / Organizational measures : Not applicable olling consumer exposure for: PC1, PC24, PC31: s, greases, release products, Polishes and wax blends
dispersive outdoor use of process of substances in closed systems Fechnical conditions and measure Remarks 2.2 Contributing scenario contradhesives, sealants, Lubricants Amount used Remarks	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use s, Wide dispersive outdoor use of substances in closed s / Organizational measures : Not applicable colling consumer exposure for: PC1, PC24, PC31: s, greases, release products, Polishes and wax blends : Not applicable
dispersive outdoor use of processor substances in closed systems Technical conditions and measure Remarks 2.2 Contributing scenario contributing scenario contributions, sealants, Lubricants Amount used	e indoor use of processing aids in open systems, Wide essing aids in open systems, Wide dispersive indoor use s, Wide dispersive outdoor use of substances in closed s / Organizational measures : Not applicable colling consumer exposure for: PC1, PC24, PC31: s, greases, release products, Polishes and wax blends : Not applicable

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Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Metal working fluids / rolling oils - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

: PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or

significant contact)

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing) **PROC10:** Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly

open process

Environmental release category : **ERC4:** Industrial use of processing aids in processes and

products, not becoming part of articles

Further information : 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.

ERC4: Industrial use

of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8, PROC8b, PROC9, PROC10, PROC13, PROC17: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Industrial spraying, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Metal working fluids / rolling oils - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing
PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

PROC17: Lubrication at high energy conditions and in partly

open process

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Environmental release category : Further information :	ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems 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.
dispersive outdoor use of processi	ERC8a, ERC8d, door use of processing aids in open systems, Wide ing aids in open systems, Wide dispersive indoor use Vide dispersive outdoor use of substances in closed
Technical conditions and measures / C Remarks :	Organizational measures Not applicable
PROC8, PROC8b, PROC9, PROC10 no likelihood of exposure, Use in closed batch procor mixture (charging/discharging) facilities; Industrial or non-industri (charging/ discharging) from/ to ve of substance or preparation into srweighing), Roller application or bru	ng worker exposure for: PROC1, PROC2, PROC3, p. PROC11, PROC13, PROC17: Use in closed process, losed, continuous process with occasional controlled cess (synthesis or formulation), Transfer of substance from/to vessels(large containers at non dedicated al setting;, Transfer of substance or preparation ssels/ large containers at dedicated facilities, Transfer mall containers (dedicated filling line, including ushing, Non industrial spraying, Treatment of articles n at high energy conditions and in partly open
Amount used Remarks :	Not applicable
3. Exposure estimation and reference to its source	
Remarks: Not applicable	
4. Guidance to Downstream User to by the Exposure Scenario	o evaluate whether he works inside the boundaries set
Not applicable	
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1. Short title of Exposure Scenario: Functional Fluids - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

SU 3: Industrial Manufacturing (all) Sector of use

: **PROC1:** Use in closed process, no likelihood of exposure Process category

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated

facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

Environmental release category

Further information

: ERC7: Industrial use of substances in closed systems

: Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment

including maintenance and related material transfers.

ERC7: Industrial use

of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8, PROC8b, PROC9: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Amount used

Remarks : Not applicable

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3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Functional Fluids - Professional

Main User Groups : **SU 22:** Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

: Transfer of substance or preparation into small containers

(dedicated filling line, including weighing)

Environmental release category : **ERC9a, ERC9b:** Wide dispersive indoor use of substances in

closed systems, Wide dispersive outdoor use of substances in

closed systems

Further information : Use as functional fluids e.g. cable oils, transfer oils, coolants,

insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material

transfers.

ERC9a, ERC9b: Wide

dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8, PROC8a, PROC9: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities,

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Transfer of substance or prepara	ation into small containers (dedicated filling line,
Amount used Remarks	: Not applicable
3. Exposure estimation and refe	rence to its source
Remarks: Not applicable	
4. Guidance to Downstream Use by the Exposure Scenario	r to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Fu	unctional Fluids - Consumer
Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Sector of use	: SU 21: Consumer uses: Private households (= general public = consumers)
Product category	: PC16: Heat transfer fluids PC17: Hydraulic fluids
Environmental release category	: ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Further information	 Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.
	ERC9a, ERC9b: Wide
substances in closed systems	nces in closed systems, Wide dispersive outdoor use of
Technical conditions and measures Remarks	s / Organizational measures : Not applicable
2.2 Contributing scenario contro fluids, Hydraulic fluids	olling consumer exposure for: PC16, PC17: Heat transfer
A	
Amount used Remarks	: Not applicable
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3. Exposure estimation and refer	ence to its source
Remarks: Not applicable	
4. Guidance to Downstream User by the Exposure Scenario	to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Us	e in polymer production – industrial
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	preparations at industrial sites : SU 3, SU 10: Industrial Manufacturing (all), Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
Process category	 PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent PROC14: Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;
Environmental release category	: ERC4, ERC6c: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics
Further information	: Manufacture of polymers from monomers in continuous and batch processes, include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).
	ERC4, ERC6c: in processes and products, not becoming part of ers for manufacture of thermoplastics

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Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC6, PROC8, PROC8b, PROC15, PROC14: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Calendering operations, Transfer of substance or mixture (charging/discharging) from/to vessels(large containers at non dedicated facilities; Industrial or non-industrial setting;, Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent, Production of mixtures or articles by tabletting, compression, extrusion, pelletization; Industrial setting;

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Agrochemical uses

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : **SU 22:** Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

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	PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Environmental release category	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
Further information	 Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.
dispersive indoor use of process of processing aids in open syste	ERC8a, ERC8d: Wide sing aids in open systems, Wide dispersive outdoor use ms
Technical conditions and measures	/ Organizational measures
Remarks	: Not applicable
PROC8b, PROC11, PROC13, PRO Use in closed, continuous proces	Illing worker exposure for: PROC1, PROC2, PROC4, DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) who substance or preparation (charging dedicated facilities, Non industriation, Transfer of substance or preparation.	DC8: Use in closed process, no likelihood of exposure,
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) who substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities.	OC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting;
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) who substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities.	OC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at al spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) when substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities. Amount used Remarks	DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting; : Not applicable
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) who substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities.	DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting; : Not applicable
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) when substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities. Amount used Remarks 3. Exposure estimation and reference Remarks: Not applicable	DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting; : Not applicable
PROC8b, PROC11, PROC13, PROUse in closed, continuous proces and other process (synthesis) when substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities. Amount used Remarks 3. Exposure estimation and reference Remarks: Not applicable 4. Guidance to Downstream User by the Exposure Scenario	DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting; : Not applicable rence to its source
PROC8b, PROC11, PROC13, PROUSE in closed, continuous proces and other process (synthesis) when substance or preparation (charging dedicated facilities, Non industrial pouring, Transfer of substance of containers at non dedicated facilities. Amount used Remarks 3. Exposure estimation and reference Remarks: Not applicable 4. Guidance to Downstream User by the Exposure Scenario	DC8: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in batch here opportunity for exposure arises, Transfer of ing/ discharging) from/ to vessels/ large containers at all spraying, Treatment of articles by dipping and or mixture (charging/discharging) from/to vessels(large lities; Industrial or non-industrial setting; : Not applicable rence to its source

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Sector of use : SU 21: Consumer uses: Private households (= general public

= consumers)

Product category : **PC31:** Polishes and wax blends

Environmental release category : ERC8a, ERC8d: Wide dispersive indoor use of processing

aids in open systems, Wide dispersive outdoor use of

processing aids in open systems

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Further information	: Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.
dispersive indoor use of proce of processing aids in open sys	ERC8a, ERC8d: Wide essing aids in open systems, Wide dispersive outdoor use etems
Technical conditions and measure Remarks	es / Organizational measures : Not applicable
2.2 Contributing scenario cont blends	rolling consumer exposure for: PC31: Polishes and wax
Amount used Remarks	: Not applicable
3. Exposure estimation and ref	erence to its source
Remarks: Not applicable	
4. Guidance to Downstream Us by the Exposure Scenario	ser to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario:	
3. Exposure estimation and ref	erence to its source
	ser to evaluate whether he works inside the boundaries set
by the Exposure Scenario	
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