

Version 2.11 Revision Date 2023-05-18

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1 Product identifier

Product information

Product Name : Synfluid® PAO 10 cSt Material : 1125444, 1079875, 1079675

EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
1-Decene	872-05-9	Chevron Phillips Chemical Company LP
	212-819-2	01-2119486878-12-0006

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Manufacture

Supported 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

1.3

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

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Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530

Responsible Party: Product Safety Group

Email:sds@cpchem.com

1.4

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

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

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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Responsible Department : Product Safety and Toxicology Group

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

SECTION 2: Hazards identification

2.1

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3

Other hazards

Results of PBT and vPvB

assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting

properties

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

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
1-Decene Homopolymer Hydrogenated	68037-01-4 500-183-1		100	

Contains no hazardous ingredients according to GHS. :

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SECTION 4: First aid measures

4.1

Description of first-aid measures

General advice : No hazards which require special first aid measures.

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

advice. If symptoms persist, call a physician.

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.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician

: No information available. Symptoms

: No information available. Risks

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

Flash point : 271°C (520°F)

Autoignition temperature 369°C (696°F)

5.1

Extinguishing media

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

5.2

Special hazards arising from the substance or mixture

fighting

Specific hazards during fire : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

5.3

Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting 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.

Hazardous decomposition

products

: Carbon oxides.

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SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Evacuate personnel to safe areas. Material can

create slippery conditions.

6.2

Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3

Methods and materials for containment and cleaning up

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

suitable, closed containers for disposal.

6.4

Reference to other sections

Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 7: Handling and storage

7.1

Precautions for safe handling 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.

7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers

: Electrical installations / working materials must comply with the

technological safety standards.

Advice on common storage : No materials to be especially mentioned.

SECTION 8: Exposure controls/personal protection

8.1

Control parameters Ingredients with workplace control parameters

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba

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1-Decene Homopolymer Hydrogenated	SI OEL	MV	5 mg/m3	Alveolarna frakcija
	SI OEL	KTV	20 mg/m3	Alveolarna frakcija

DE

- 1					
	Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
	1-Decene Homopolymer Hydrogenated	DE TRGS 900	AGW	5 mg/m3	Y, Alveolengängige Fraktion

Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden

СН

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
1-Decene Homopolymer Hydrogenated	CH SUVA	MAK-Wert	5 mg/m3	SSc, einatembarer Staub

SSc Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. 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 If ventilation or other engineering controls are not adequate to

> maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved

respirator may be appropriate.

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.

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

Skin and body protection Choose body protection according to the amount and

> concentration of the substance and the task performed at the work place. Appropriate PPE may include:. Lightweight

protective clothing.

: General industrial hygiene practice. Hygiene measures

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

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Appearance

Physical state : liquid

Color : Clear, Colorless

Odor : Odorless

Odor Threshold : No data available

Safety data

Flash point : 271°C (520°F)

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : no

Autoignition temperature : 369°C (696°F)

Molecular formula : UVCB

Molecular weight : Varies

pH : Not applicable

Boiling point/boiling range : 430°C (806°F)

Vapor pressure : 0,10 MMHG

at 232°C (450°F)

Relative density : 0,83

at 15,6 °C (60,1 °F)

Density : 0,835 g/cm3

at 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 : 60,3 cSt

at 40°C (104°F)

Relative vapor density : 10

(Air = 1.0)

Evaporation rate : 3

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable at normal ambient temperature and pressure.

10.2

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

anticipated storage and handling conditions of temperature

and pressure.

10.3

Possibility of hazardous reactions

Hazardous reactions : Further information: Stable under recommended storage

conditions., No hazards to be specially mentioned.

10.4

Conditions to avoid : No data available.

10.5

Materials to avoid : No data available.

10.6

Hazardous decomposition

products

: Carbon oxides

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

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute oral toxicity

1-Decene Homopolymer : LD50 Oral: > 5.000 mg/kg

Hydrogenated Species: Rat

Acute inhalation toxicity

1-Decene Homopolymer : LC50: > 5,2 mg/l Hydrogenated : Exposure time: 4 h

Species: Rat

Test atmosphere: dust/mist

Acute dermal toxicity

1-Decene Homopolymer : LD50: > 2.000 mg/kg

Hydrogenated Species: Rabbit

Skin irritation

1-Decene Homopolymer : No skin irritation

Hydrogenated

Eye irritation

1-Decene Homopolymer : No eye irritation

Hydrogenated

Sensitization

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1-Decene Homopolymer

Hydrogenated

: Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Decene Homopolymer

Hydrogenated

Species: Rat

Application Route: Oral

Dose: 0, 8000, 20000, 50000 ppm

Exposure time: 28 day Number of exposures: daily 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

Genotoxicity in vitro

1-Decene Homopolymer

Hydrogenated

: Remarks: No adverse effects expected, Information given is

based on data obtained from similar substances.

Genotoxicity in vivo

1-Decene Homopolymer

Hydrogenated

: Remarks: No adverse effects expected, Information given is

based on data obtained from similar substances.

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

Developmental Toxicity

1-Decene Homopolymer

Hydrogenated

: Animal testing did not show any effects on fetal development. Information given is based on data obtained from similar

substances.

Aspiration toxicity

1-Decene Homopolymer

Hydrogenated

: No aspiration toxicity classification.

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Specific Target Organ Toxicity (Single Exposure)

1-Decene Homopolymer : Remarks: Not classified due to data which are conclusive

Hydrogenated although insufficient for classification.

Specific Target Organ Toxicity (Repeated Exposure)

: Remarks: Not classified due to data which are conclusive 1-Decene Homopolymer

Hydrogenated although insufficient for classification.

CMR effects

1-Decene Homopolymer : Carcinogenicity: Not classifiable as a human carcinogen. Hydrogenated

Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: no developmental effects

Reproductive toxicity: No toxicity to reproduction

11.2

Information on other hazards

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Further information : No data available.

Endocrine disrupting The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 12: Ecological information

12.1

Toxicity

properties

Ecotoxicity effects Toxicity to fish

1-Decene Homopolymer : LL50: > 1.000 mg/l Hydrogenated Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

: EL50: > 1.000 mg/l1-Decene Homopolymer Hydrogenated Exposure time: 48 h

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

Toxicity to algae

1-Decene Homopolymer : NOELR: 1.000 mg/l

Hydrogenated Exposure time: 72 h

Species: Scenedesmus capricornutum (fresh water algae)

static test Method: OECD Test Guideline 201

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12.2

Persistence and degradability

Biodegradability

1-Decene Homopolymer

Hydrogenated

: This material is not expected to be readily biodegradable.

Expected to be inherently biodegradable.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation

1-Decene Homopolymer

Hydrogenated

: This material is not expected to bioaccumulate.

12.4

Mobility in soil

Mobility : No data available

12.5

Results of PBT and vPvB assessment

Results of PBT assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6

Endocrine disrupting properties

Endocrine disrupting

properties

: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7

Other adverse effects

Additional ecological

: No data available

information 12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

1-Decene Homopolymer

: This material is not expected to be harmful to aquatic

Hydrogenated organisms.

Long-term (chronic) aquatic hazard

1-Decene Homopolymer : This material is not expected to be harmful to aquatic

Hydrogenated organisms.

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SECTION 13: Disposal considerations

13.1

Waste treatment methods

The information in this SDS 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.

A quantitative risk assessment is not required for the environment.

A quantitative risk assessment is not required for human health.

SECTION 14: Transport information

14.1 - 14.7

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 SDS 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 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.

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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.

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

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

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Water hazard class

: WGK 1 slightly water endangering

(Germany)

15.2

Chemical Safety Assessment

Components : 1-Decene A Chemical Safety Assessment

Homopolymer has been carried out for this

Hydrogenated substance.

Major Accident Hazard : ZEU_SEVES3 Update:

Legislation Not applicable

Notification status

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AIIC : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory
Korea KECI : All substances in this product were registered, notified

to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was

included on CPChem's notifications or if the Importer of

Record themselves notified the substances.

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

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SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



Further information

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

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

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.

P	Key or legend to abbreviations and a	cronyms used i	n the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	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	Philippines 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 Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and

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			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
			Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

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Annex

1. Short title of Exposure Scenario: Manufacture

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

preparations at industrial sites

Sector of use : SU3, 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 : **ERC1**, **ERC4**: Manufacture of substances, Industrial use of

processing aids in processes and products, not becoming part

of articles

2.1 Contributing scenario controlling environmental exposure for:ERC1, ERC4: Manufacture of substances, 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, PROC8a, 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 preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, 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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SAFETY DATA SHEET Synfluid® PAO 10 cSt Version 2.11 Revision Date 2023-05-18 3. Exposure estimation and reference to its source Not applicable Remarks: 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 as an intermediate Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites : SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of Sector of use bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals : 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 nondedicated facilities **PROC8b:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated PROC15: Use as laboratory reagent Environmental release category : **ERC6a:** Industrial use resulting in manufacture of another substance (use of intermediates)

2.1 Contributing scenario controlling environmental exposure for: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, PROC8a, 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 preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large

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containers at dedicated fa	cilities, Use as laboratory	reagent
Amount used Remarks	: Not applicable	
3. Exposure estimation an	d reference to its source	
Remarks: Not applicable	,	
4. Guidance to Downstread by the Exposure Scenario	m User to evaluate whethe	er he works inside the boundaries set
Not applicable		
Short title of Exposure Scenario	ario: Formulation	
Main User Groups	: SU 3: Industrial use	es: Uses of substances as such or in
Sector of use	preparations at ind : SU3, SU 10: Indus	lustrial sites strial Manufacturing (all), Formulation
	[mixing] of prepara	tions and/ or re-packaging (excluding
Process category	PROC2: Use in clo	osed process, no likelihood of exposure osed, continuous process with occasional
		e osed batch process (synthesis or
	formulation) PROC4: Use in bate opportunity for expense.	ttch and other process (synthesis) where
	PROC5: Mixing or	blending in batch processes for formulation d articles (multistage and/ or significant
	contact)	
		r of substance or preparation (charging/ to vessels/ large containers at non-
	PROC8b: Transfer	r of substance or preparation (charging/ to vessels/ large containers at dedicated
	facilities	of substance or preparation into small
	containers (dedicat	ted filling line, including weighing)

PROC14: Production of preparations or articles by tabletting,

compression, extrusion, pelletization PROC15: Use as laboratory reagent

Environmental release category : **ERC2**: Formulation of preparations

2.1 Contributing scenario controlling environmental exposure for:ERC2: Formulation of preparations

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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,, PROC8a, 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 preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, 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 preparations or articles by tabletting, compression, extrusion, pelletization, 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 : SU3: 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

PROC5: 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

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	facilities PROC9: 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 preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent			
Environmental release category	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles			
2.1 Contributing scenario controll	ing environmental exposure for:ERC4: Industrial use of			
	products, not becoming part of articles			
Technical conditions and measures / Remarks	Organizational measures : Not applicable			
	ing worker exposure for: PROC1, PROC2, PROC3,			
PROC15: Use in closed process, reprocess with occasional controlle formulation), Use in batch and otherises, Mixing or blending in batch articles (multistage and/ or significant substance or preparation (charging non-dedicated facilities, Transferfrom/ to vessels/ large containers preparation into small containers application or brushing, Treatment	process, PROC9, PROC10, PROC13, PROC14, no likelihood of exposure, Use in closed, continuous ed exposure, Use in closed batch process (synthesis or ner process (synthesis) where opportunity for exposure the processes for formulation of preparations and cant contact), Industrial spraying, Transfer of ng/discharging) from/to vessels/large containers at of substance or preparation (charging/ discharging) at dedicated facilities, Transfer of substance or (dedicated filling line, including weighing), Roller of articles by dipping and pouring, Production of ing, compression, extrusion, pelletization, Use as			
Amount used Remarks	: Not applicable			
3. Exposure estimation and reference to its source				
-				
Remarks: Not applicable				
4. Guidance to Downstream User by the Exposure Scenario	to evaluate whether he works inside the boundaries set			
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Not applicable

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: 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

PROC5: 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

2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, 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 preparations and articles (multistage and/ or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Roller application or brushing, Non industrial spraying,

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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 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 - 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 products;

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

2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling consumer exposure for: PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34: Adhesives, sealants, Anti-Freeze and de-icing products, Biocidal products (e.g. Disinfectants, pest control), Coatings and paints, thinners, paint removers, Fillers, putties, plasters, modelling clay, Finger paints, Non-metal-surface treatment products, Ink and toners, Leather tanning, dye, finishing, impregnation and care products, Lubricants, greases, release products, Polishes and wax blends, Textile dyes, finishing and impregnating products; including bleaches and other processing aids

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 - Industrial

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

preparations at industrial sites

Sector of use : SU3: 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

PROC5: 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

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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	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
	ng environmental exposure for:ERC4, ERC7: Industrial es and products, not becoming part of articles, esed systems
Technical conditions and measures / Remarks	Organizational measures Not applicable
PROC4, PROC7, PROC8a, PROC8k in closed process, no likelihood of occasional controlled exposure, U Use in batch and other process (sy Industrial spraying, Transfer of sulvessels/large containers at non-de (charging/ discharging) from/ to ve of substance or preparation into si weighing), Roller application or bro	ng worker exposure for: PROC1, PROC2, PROC3, p. PROC9, PROC10, PROC13, PROC17, PROC18: Use f exposure, Use in closed, continuous process with se in closed batch process (synthesis or formulation), ynthesis) where opportunity for exposure arises, bstance or preparation (charging/discharging) from/to edicated facilities, Transfer of substance or preparation essels/ large containers at dedicated facilities, Transfer mall containers (dedicated filling line, including ushing, Treatment of articles by dipping and pouring, ons and in partly open process, Greasing at high
Amount used Remarks :	Not applicable
3. Exposure estimation and referen	nce to its source
Remarks: Not applicable	
4. Guidance to Downstream User t by the Exposure Scenario	o evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Lubi	ricants - Professional
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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

PROC9: 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

PROC20: Heat and pressure transfer fluids in dispersive,

professional use but closed systems

Environmental release category : ERC8a, 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

2.1 Contributing scenario controlling environmental exposure for: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

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20: 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 preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer

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of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions, Heat and pressure transfer fluids in dispersive, professional use but closed systems

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 - 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

PC24: Lubricants, greases, release products

PC31: Polishes and wax blends

Environmental release category : **ERC8a, 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

2.1 Contributing scenario controlling environmental exposure for: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

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling consumer exposure for: PC1, PC24, PC31: Adhesives, sealants, Lubricants, greases, release products, Polishes and wax blends

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 - Industrial

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

preparations at industrial sites

Sector of use : SU3: 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

PROC5: 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

PROC9: 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

2.1 Contributing scenario controlling environmental exposure for: ERC4: Industrial use of

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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, PROC8a, 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, Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, 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

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	PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: 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		
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		
2.1 Contributing scenario controlling environmental exposure for: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			
Technical conditions and measures / Organizational measures Remarks : Not applicable			
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, 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), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging) 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, Non industrial spraying, 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 referen	nce to its source		
o. Exposure esumation and refere	nice to its source		
Remarks: Not applicable			

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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 - Industrial

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

preparations at industrial sites

Sector of use : SU3: 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

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental release category : ERC7: Industrial use of substances in closed systems

2.1 Contributing scenario controlling environmental exposure for: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, PROC8a, 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 preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, 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

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) **PROC20:** Heat and pressure transfer fluids in dispersive.

professional use but closed systems

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

closed systems, Wide dispersive outdoor use of substances in

closed systems

2.1 Contributing scenario controlling environmental exposure for: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, PROC8a, 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 preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, 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)

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Amount used Remarks	: Not applicable		
3. Exposure estimation and refer	rence to its source		
Remarks: Not applicable			
4. Guidance to Downstream User by the Exposure Scenario	r to evaluate whether he works inside the boundaries set		
Not applicable 1. Short title of Exposure Scenario: Fu	ınctional Fluids - Consumer		
Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)		
Sector of use Product category	 SU 21: Consumer uses: Private households (= general public = consumers) PC16: Heat transfer fluids 		
Environmental release category	PC17: Hydraulic fluids : ERC9a, ERC9b: Wide dispersive indoor use of substances in		
,	closed systems, Wide dispersive outdoor use of substances in closed systems		
	Iling environmental exposure for:ERC9a, ERC9b: Wide nces in closed systems, Wide dispersive outdoor use of		
Technical conditions and measures / Organizational measures Remarks : Not applicable			
2.2 Contributing scenario contro fluids, Hydraulic fluids	Iling consumer exposure for: PC16, PC17: Heat transfer		
Amount used Remarks	: Not applicable		
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SAFETY DATA SHEET Synfluid® PAO 10 cSt Version 2.11 Revision Date 2023-05-18 3. Exposure estimation and reference to its source Not applicable Remarks: 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 polymer production – industrial Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU3, SU 10: Industrial Manufacturing (all), Formulation Sector of use [mixing] of preparations and/ or re-packaging (excluding allovs) **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 PROC5: 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 nondedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent : ERC4, ERC6c: Industrial use of processing aids in processes Environmental release category and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics 2.1 Contributing scenario controlling environmental exposure for:ERC4, ERC6c: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics Technical conditions and measures / Organizational measures

: Not applicable

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Remarks

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC6, PROC5, PROC8a, 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, Calendering operations, Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent, Production of preparations or articles by tabletting, compression, extrusion, pelletization

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

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

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) **PROC20:** Heat and pressure transfer fluids in dispersive,

professional use but closed systems

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

closed systems, Wide dispersive outdoor use of substances in

closed systems

2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d: Wide

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

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Non industrial spraying, Treatment of articles by dipping and pouring

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 21:** Consumer uses: Private households (= general public

= consumers)

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

= consumers)

Product category : **PC12:** Fertilizers

PC27: Plant protection products

Environmental release category : **ERC8d:** Wide dispersive outdoor use of processing aids in

open systems

2.1 Contributing scenario controlling environmental exposure for:ERC8d: 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 contr Plant protection products	olling consumer exposure for: PC12, PC27: Fertilizers,
Amount used Remarks	: Not applicable
3. Exposure estimation and refe	erence to its source
Remarks: Not applicable	
4. Guidance to Downstream Usby the Exposure Scenario	er to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: C	Other consumer uses
Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Sector of use Product category	 SU 21: Consumer uses: Private households (= general public = consumers) PC28: Perfumes, fragrances
Environmental release category	 PC39: Cosmetics, personal care products ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
2.2 Contributing scenario contr fragrances, Cosmetics, persona	olling consumer exposure for: PC28, PC39: Perfumes, al care products
Amount used Remarks	: Not applicable

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3. Exposure estimation and reference to its source	e
Remarks: Not applicable	
4. Guidance to Downstream User to evaluate whe by the Exposure Scenario	ther he works inside the boundaries set
Not applicable	
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