

## Synfluid® PAO 2.5 cSt

Version 1.17

Revision Date 2023-05-19

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 2.5 cSt
Material	:	1124731, 1079862, 1079691

## EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Dodecene, Dimer Hydrogenated	151006-61-0 417-060-2 601-063-00-2	Chevron Phillips Chemical Company LP 01-0000016387-64-0006

1.2

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

Relevant Identified Uses : Supported	Manufacture 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 Other consumer uses
Details of the supplier of the sa	afety data sheet
Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
SDS Number:100000013639	1/50

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Local	: Chevron Phillips Ch Airport Plaza (Stock Leonardo Da Vincila 1831 Diegem Belgium	
	SDS Requests: (80 Responsible Party: Email:sds@cpchem	Product Safety Group
.4 Emergency telepho	ne:	
Health:		
866.442.9628 (No 1.832.813.4984 (I		
Transport:	424.9300 or 703.527.3887(int'l)	
Asia: CHEMWAT	CH (+612 9186 1132) China: 05	32 8388 9090
	EC 01-800-681-9531 (24 hours) DS-Cotec Inside Brazil: 0800.11	1.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-	159839431	
	2.14.584545 (phone) or +32.145 406 43 43 (24 hours/day, 7 day	
	245 (24 hours/day, 7 days/week	()
Bulgaria: +359 2 Croatia: +3851 23	48 342 (24 hours/day, 7 days/w	eek)
Cyprus: 1401	Toxicological Information Contor	+420 224 919 293, +420 224 915 402
Denmark: Danish	Poison Center (Giftlinjen): +45 8	3212 1212
	14.584545 (phone) or +32.1458 111 09 471 977 (24 hours/day	
	(	, 59 59 (24 hours/day, 7 days/week)
	2.14.584545 (phone) or +32.145	
	07793777 (24 hours/day, 7 day 201-199 (24 hours/day, 7 days/v	
Iceland: 543 2222	(24 hours/day, 7 days/week)	,
	14.584545 (phone) or +32.14583 584545 (phone) or +32.1458351	
		hber: 112; Toxicology and Sepsis Clinic
		a 2, Riga, Latvia, LV-1038, phone number +37′
67042473. (24 h Liechtenstein: BI	6 +32.14.584545 (phone) or +32	.14583516 (telefax)
Lithuania: +370 (8	,	
Luxembourg: (+3 Malta: +356 2395	52) 8002 5500 (24 hours/day, 7 o 2000	days/week)
The Netherlands:	NVIC: +31 (0)88 755 8000	
	00 (24 hours/day, 7 days/week) 14.584545 (phone) or +32.14583	
Portugal: CIAV pr	one number: +351 800 250 250	
Romania: +40213		
Slovakia: +421 2 Slovenia: Phone		
Spain: National E	mergency Telephone Number of	Spanish Poison Centre: +34 91 562 04 20 (24
hours/day, 7 days Sweden: 112 – as	/week) k 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

Acute toxicity, Category 4

Hazard pictograms

Aspiration hazard, Category 1

Long-term (chronic) aquatic hazard, Category 4

H332: Harmful if inhaled. H304: May be fatal if swallowed and enters airways. H413: May cause long lasting harmful effects to aquatic life.

2.2

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



Signal Word	:	Danger	
Hazard Statements	:	H304 H332 H413	May be fatal if swallowed and enters airways. Harmful if inhaled. May cause long lasting harmful effects to aquatic life.
Precautionary Statements	:	Prevention: P261 P273 Response: P301 + P310 P304 + P340 + P3 P331 Disposal: P501	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 12 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Do NOT induce vomiting. Dispose of contents/ container to an approved waste disposal plant.
Hazardous ingredients which r • 151006-61-0 1-Doo		st be listed on the la cene, Dimer Hydrog	

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assessment be eith			s substance/mixture contains no components considered to either persistent, bioaccumulative and toxic (PBT), or very sistent and very bioaccumulative (vPvB) at levels of 0.1%					
	Endocrine disrupting properties	:	<ul> <li>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.</li> </ul>					
SEC	CTION 3: Composition/i	nformatio	on on	ingredients				
	- 3.2 estance or Mixture Synonyms Molecular formula Hazardous ingredients	-	Polya UVCI	Ilphaolefin 3				
	Chemical name	CAS-N EC-N Index I	о.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs		
	1-Dodecene, Dimer Hydrogenated	151006- 417-060 601-063-	61-0 -2	Acute Tox. 4; H332 Asp. Tox. 1; H304 Aquatic Chronic 4; H413	100			
SEC	For the full text of the H		nts me	entioned in this Section, a	see Section 16.			
l.1	Description of first-aid		es					
	General advice	:	sheet	e out of dangerous area. to the doctor in attenda us, potentially fatal pneu	nce. Material ma	ay produce a		
	If inhaled	:	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.					
	In case of eye contact	:	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. 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. Take victim immediately to hospital.					
4.2	Most important sympton Notes to physician	oms and	effect	s, both acute and dela	yed			
	Symptoms	:	No da	ata available.				

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4.3	Risks Indication of any immediate	: me	No data available. edical attention and special treatment needed
	Treatment	:	No data available.
SEC	CTION 5: Firefighting measure	es	
	Flash point	:	186°C (367°F) Method: Cleveland Open Cup
	Autoignition temperature	:	324°C (615°F)
5.1	Extinguishing media		
	Unsuitable extinguishing media	:	High volume water jet.
5.2	<b>Special hazards arising from</b> Specific hazards during fire fighting		he substance or mixture 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.
	Fire and explosion protection	:	Normal measures for preventive fire protection.
	Hazardous decomposition products	:	Carbon oxides.
SEC	CTION 6: Accidental release r	ne	asures
6.1	Personal precautions, prote	cti	ve equipment and emergency procedures
	Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.
6.2	Environmental precautions		
	Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3	<b>Methods and materials for c</b> Methods for cleaning up	on :	tainment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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

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considerations see section 13.

		considerations see section 13.
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling Handling	
	Advice on safe handling :	Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
	Advice on protection : against fire and explosion	Normal measures for preventive fire protection.
7.2	Conditions for safe storage, ir	ncluding any incompatibilities
	Storage	
	Requirements for storage : areas and containers	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
	German storage class :	Combustible liquids
7.3	Specific End Use Use :	For additional details, see the Exposure Scenario in the Annex portion
SEC	CTION 8: Exposure controls/per	sonal protection

## 8.1

## **Control parameters** Ingredients with workplace control parameters

SI

Osnova	Vrednost	Parametri nadzora	Pripomba
SI OEL	MV	5 mg/m3	Alveolarna frakcija
SI OEL	KTV	20 mg/m3	Alveolarna frakcija
Grundlage	Wert	Zu überwachende Parameter	Bemerkung
DE TRGS 900	AGW	5 mg/m3	Y, Alveolengängige Fraktion
Grundlage	Wert	Zu überwachende	Bemerkung
Grundlage CH SUVA	Wert MAK-Wert	Parameter	SSc, einatembarer
CH SUVA	MAK-Wert	Parameter 5 mg/m3	
CH SUVA	MAK-Wert inhaltung des MAK-We	Parameter	SSc, einatembarer
CH SUVA	MAK-Wert	Parameter 5 mg/m3	SSc, einatembarer
	SI OEL SI OEL Grundlage DE TRGS 900 ligung braucht bei Ein	SI OEL     MV       SI OEL     KTV       Grundlage     Wert       DE TRGS 900     AGW       ligung braucht bei Einhaltung des Arbeitspla	SI OEL     MV     5 mg/m3       SI OEL     KTV     20 mg/m3       Grundlage     Wert     Zu überwachende Parameter       DE TRGS 900     AGW     5 mg/m3       ligung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologisch

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			Routes of exposure: Inhalation Potential health effects: Acute effects Exposure time: 15 min Value: 60 mg/m3
DN	EL	:	End Use: Consumers Routes of exposure: Inhalation Potential health effects: Acute effects Exposure time: 15 min Value: 50 mg/m3
	osure controls ineering measures		
Cons activ perse expo reco	sider the potential haza ities, and other substar onal protective equipmo sure to harmful levels o mmended. The user sl	rds of nces in ent. In of this nould	rborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job n the work place when designing engineering controls and selectin f engineering controls or work practices are not adequate to preve material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with usually provided for a limited time or under certain circumstances
Pers	sonal protective equip	ment	
Resp	biratory 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. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air- supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand	d 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 according to the amount and concentration of the substance and the task performed at the work place. Appropriate PPE may include:. Protective suit. Safety shoes.
Hygi	ene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
For a	additional details, see tl	ne Ex	posure Scenario in the Annex portion
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SEC	SECTION 9: Physical and chemical properties							
9.1	· · ·							
	Appearance							
	Physical state Color Odor	:	liquid Clear, colorless Odorless					
	Safety data							
	Flash point	:	186°C (367°F) Method: Cleveland Open Cup					
	Lower explosion limit	:	Not applicable					
	Upper explosion limit	:	Not applicable					
	Oxidizing properties	:	no					
	Autoignition temperature	:	324°C (615°F)					
	Molecular formula	:	UVCB					
	Molecular weight	:	Varies					
	рН	:	Not applicable					
	Freezing point	:	-52°C (-62°F)					
	Boiling point/boiling range	:	277°C (531°F)					

Vapor pressure	: 1,00 MMHG
	at 150°C (302°F)

Relative density : 0,81 at 15,6 °C (60,1 °F)

: log Pow: > 4,82

: 8,3 cSt

: 10

at 21°C (70°F)

at 40°C (104°F)

(Air = 1.0)

: No data available

Density : 806,8 g/l Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: noctanol/water

Viscosity, kinematic

Relative vapor density

Evaporation rate

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SECTION 10: Stability and reacti	vity
10.1	
Reactivity	: Stable at normal ambient temperature and pressure.
Reactivity	
10.2	
Chemical stability	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature</li> </ul>
	and pressure.
10.3	
Possibility of hazardous rea	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as
	directed.
10.4 Conditions to avoid	: No data available.
10.5 Materials to avoid	: No data available.
10.6	
Hazardous decomposition products	: Carbon oxides
-	. No decomposition if stand and applied as directed
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
11.1	
Information on toxicologica	I effects
Acute oral toxicity	
1-Dodecene, Dimer	: LD50 Oral: > 5.000 mg/kg
Hydrogenated	Species: Rat Test substance: yes
Acute inhalation toxicity	
1-Dodecene, Dimer	: LC50: 1,71 mg/l
Hydrogenated	Exposure time: 4 h Species: Rat
	Sex: female
	Test atmosphere: dust/mist Test substance: yes
	LC50: > 5,06 mg/l Exposure time: 4 h
	Species: Rat
	Sex: male
	Test atmosphere: dust/mist Test substance: yes
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Acute dermal toxicity	
1-Dodecene, Dimer Hydrogenated	: LD50 Dermal: >2000 milligram per kilogram Species: Rat Test substance: yes
Skin irritation	
1-Dodecene, Dimer Hydrogenated	: No skin irritation
<b>Eye irritation</b> 1-Dodecene, Dimer Hydrogenated	: No eye irritation
Sensitization	
1-Dodecene, Dimer Hydrogenated	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
1-Dodecene, Dimer Hydrogenated	: Species: Rat Application Route: oral gavage Dose: 0 up to 1000 mg/kg Exposure time: 28 day Number of exposures: daily NOEL: 1.000 mg/kg
Genotoxicity in vitro	
1-Dodecene, Dimer Hydrogenated	: Test Type: Ames test Result: negative
Genotoxicity in vivo	
1-Dodecene, Dimer Hydrogenated	: Test Type: Mouse micronucleus assay Result: negative
Reproductive toxicity	
1-Dodecene, Dimer Hydrogenated	<ul> <li>Fertility and developmental toxicity tests did not reveal any effect on reproduction.</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Developmental Toxicity	
1-Dodecene, Dimer Hydrogenated	<ul> <li>Animal testing did not show any effects on fetal development Information given is based on data obtained from similar substances.</li> </ul>
Aspiration toxicity	
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1-Dodecene, Dimer Hydrogenated	: May be fatal if swallowed and enters airways.
<b>Specific Target Organ To</b> 1-Dodecene, Dimer Hydrogenated	<ul> <li>xicity (Single Exposure)</li> <li>Remarks: Not classified due to data which are conclusive although insufficient for classification.</li> </ul>
<b>Specific Target Organ To</b> 1-Dodecene, Dimer Hydrogenated	<ul> <li>xicity (Repeated Exposure)</li> <li>Remarks: Not classified due to data which are conclusive although insufficient for classification.</li> </ul>
CMR effects	
1-Dodecene, Dimer Hydrogenated	<ul> <li>Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Weight of evidence does not support classification as a germ cell mutagen. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: Animal testing did not show any effects on fertility.</li> </ul>
1.2 Information on other haz	ards
Synfluid® PAO 2.5 cSt Further information Endocrine disrupting properties	<ul> <li>Solvents may degrease the skin.</li> <li>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.</li> </ul>
ECTION 12: Ecological infor	mation
2.1 Toxicity	
Ecotoxicity effects Toxicity to fish	
1-Dodecene, Dimer Hydrogenated	<ul> <li>LL50: &gt; 1.000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
Toxicity to daphnia and c	other aquatic invertebrates
1-Dodecene, Dimer Hydrogenated	<ul> <li>EL50: &gt; 1.000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>

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То	xicity to algae	
	Dodecene, Dimer drogenated	<ul> <li>EbC50: &gt; 1.000 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (algae) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.</li> </ul>
12.2 Per	rsistence and degradabilit	y .
Bio	odegradability	
	Dodecene, Dimer drogenated	: Expected to be inherently biodegradable.
Bio	<b>Daccumulative potential</b> mination information (persiste	ence and degradability)
	bility in soil	
Мо	bility	: No data available
12.5		
	sults of PBT and vPvB ass sults of PBT assessment	<ul> <li>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.</li> </ul>
12.6 En	docrine disrupting propert	ies
	docrine disrupting operties	<ul> <li>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.</li> </ul>
12.7		
Oth	her adverse effects	
	ditional ecological ormation	: No data available
	ditional Information	
Eco	otoxicology Assessment	
	ng-term (chronic) aquatic zard	: May cause long lasting harmful effects to aquatic life.
SECTIC	ON 13: Disposal considerat	ions
13.1		
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### 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.

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

For additional details, see the Exposure Scenario in the Annex portion

### 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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OF DANGEROUS GOODS BY INI	RDOUS MATERIAL ÓR DANGEROUS GOODS FOR
Maritime transport in bulk accor	-
SECTION 15: Regulatory information	
15.1 Safety, health and environmenta National legislation	I regulations/legislation specific for the substance or mixture
	/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of e Council on the Registration, Evaluation, Authorisation and
Water hazard class : \ (Germany)	WGK 1 slightly water endangering
15.2 Chemical Safety Assessment	
Components : 1-Dode Hydrog	ecene, Dimer lenated
•	ZEU_SEVES3 Update: Not applicable
Notification status Europe REACH	: This product is in full compliance according to REACH
	regulation 1907/2006/EC.
Switzerland CH INV United States of America (USA) TSCA	<ul><li>Not in compliance with the inventory</li><li>All substances listed as active on the TSCA inventory</li></ul>
Canada DSL	: All components of this product are on the Canadian DSL
Australia AIIC New Zealand NZIoC	<ul><li>On the inventory, or in compliance with the inventory</li><li>Not in compliance with the inventory</li></ul>
Japan ENCS	: On the inventory, or in compliance with the inventory
Korea KECI	: Not in compliance with the inventory
Philippines PICCS Taiwan TCSI	<ul><li>On the inventory, or in compliance with the inventory</li><li>On the inventory, or in compliance with the inventory</li></ul>
China IECSC	: On the inventory, or in compliance with the inventory

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# **SECTION 16: Other information NFPA Classification** : Health Hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0 2 0 **Further information** Legacy SDS Number : 5939 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 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.

AIIC DSL NDSL CNS CAS	Government Industrial Hygienists Australian Inventory of Industrial Chemicals Canada, Domestic Substances List Canada, Non-Domestic Substances List	LOAEL NFPA NIOSH	Lowest Observed Adverse Effe Level National Fire Protection Agenc
NDSL CNS	List Canada, Non-Domestic Substances List		National Fire Protection Agenc
CNS	Substances List	NIOSH	
			National Institute for Occupation Safety & Health
CAS	Central Nervous System	NTP	National Toxicology Program
	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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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

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ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
			Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

## Full text of H-Statements referred to under sections 2 and 3.

H304	May be fatal if swallowed and enters airways.
11000	

H332 Harmful if inhaled.

H413 May cause long lasting harmful effects to aquatic life.

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Annex

1. Short title of Exposure Scenario: Manu	Ifacture	
Main User Groups :	SU 3: Industrial uses: Uses of substances as such or in	
Sector of use :	preparations at industrial sites <b>SU8, SU9, SU3:</b> Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals, Industrial Manufacturing (all)	
Process category :	<ul> <li>PROC1: Use in closed process, no likelihood of exposure</li> <li>PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC15: Use as laboratory reagent</li> </ul>	
Environmental release category :	<b>ERC1, ERC4:</b> 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	
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		
Environment factors not influenced by Remarks :	risk management Not applicable	
	A quantitative risk assessment is not required for the environment.	
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)		
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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

Organizational measures to prevent /limit releases, dispersion and exposure Do not ingest. If swallowed then seek immediate medical assistance.

## 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 as an intermediate

Main User Groups	: <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites
Sector of use	<ul> <li>SU8, SU9, SU3: Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals, Industrial Manufacturing (all)</li> </ul>
Process category	<ul> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC15: Use as laboratory reagent</li> </ul>
Environmental release category	: <b>ERC6a:</b> Industrial use resulting in manufacture of another substance (use of intermediates)
Further information	: Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).
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Environment factors not influe Remarks	enced by risk management : Not applicable
Technical conditions and mea Remarks	<ul> <li>A quantitative risk assessment is not required for the environment.</li> </ul>
PROC4, PROC8a, PROC8b, Use in closed, continuous p batch process (synthesis o where opportunity for expo (charging/discharging) from Transfer of substance or pr	controlling worker exposure for: PROC1, PROC2, PROC3, , PROC15: Use in closed process, no likelihood of exposure, process with occasional controlled exposure, Use in closed or formulation), Use in batch and other process (synthesis) osure arises, Transfer of substance or preparation m/to vessels/large containers at non-dedicated facilities, reparation (charging/ discharging) from/ to vessels/ large cilities, Use as laboratory reagent
Amount used Remarks	: Not applicable
Do not ingest. If swallowed the	revent /limit releases, dispersion and exposure en seek immediate medical assistance.
3. Exposure estimation and	I reference to its source
Remarks: Not applicable	
	n User to evaluate whether he works inside the boundaries se
4. Guidance to Downstream by the Exposure Scenario Not applicable	
4. Guidance to Downstream by the Exposure Scenario Not applicable	rio: <b>Formulation</b> : <b>SU 3:</b> Industrial uses: Uses of substances as such or in
<ol> <li>Guidance to Downstream by the Exposure Scenario</li> <li>Not applicable</li> <li>Short title of Exposure Scenario</li> </ol>	<ul> <li>surio: Formulation</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU3, SU 10: Industrial Manufacturing (all), Formulation [mixing] of preparations and/ or re-packaging (excluding</li> </ul>
4. Guidance to Downstream by the Exposure Scenario Not applicable 1. Short title of Exposure Scenar Main User Groups	rio: <b>Formulation</b> : <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites : <b>SU3, SU 10:</b> Industrial Manufacturing (all), Formulation

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	<ul> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC8a: Transfer of substance or preparation</li> </ul>	
	(charging/discharging) from/to vessels/large containers at non-dedicated facilities <b>PROC8b:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	
	<ul> <li>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</li> <li>PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization</li> <li>PROC15: Use as laboratory reagent</li> </ul>	
Environmental release category	ERC2: Formulation of preparations	
Further information	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials, transfers, mixing, large and small scale packing, maintenance and associated laboratory activities.	
2.1 Contributing scenario controll preparations Environment factors not influenced b Remarks	ing environmental exposure for:ERC2: Formulation of y risk management Not applicable	
Technical conditions and measures / Remarks	Organizational measures : A quantitative risk assessment is not required for the environment.	
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, 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), 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		
Product characteristics		
Remarks Amount used	: Liquid, vapour pressure < 0.5 kPa at STP	
Remarks	: Not applicable	
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Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	<ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
	ent /limit releases, dispersion and exposure eek immediate medical assistance.
	trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	<ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
	ent /limit releases, dispersion and exposure eek immediate medical assistance.
	to personal protection, hygiene and health evaluation 1374., Wear suitable coveralls to prevent exposure to the skin.
	trolling worker exposure for: PROC5: Mixing or blending in on of preparations and articles (multistage and/ or
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used	: Not applicable
Remarks	
	: Covers daily exposures up to 8 hours (unless stated differently)
Frequency and duration of use	differently)

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## Technical conditions and measures

Provide extraction ventilation at points where emissions occur.

Organizational measures to prevent /limit releases, dispersion and exposure Do not ingest. If swallowed then seek immediate medical assistance.

**Conditions and measures related to personal protection, hygiene and health evaluation** Wear suitable gloves tested to EN374., Wear suitable coveralls to prevent exposure to the skin.

## 3. Exposure estimation and reference to its source

### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC4, CS16, CS55, CS56	ECETOC TRA Modified		Worker – inhalation,	5 mg/m3	0,9
0305, 0356	Modified		long-term – systemic Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,1
			Worker – long-term – systemic Combined routes		0,96
PROC5, CS30	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,5 mg/m3	0,1
			Worker – dermal, long- term – systemic	0,0685 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,09
PROC5: Mixi and/ or signif CS30: Mixing 4. Guidance t by the Expos	icant contact) operations (oper o Downstream ure Scenario	systems) User to evalu	s for formulation of p late whether he w	orks inside the	e boundaries set
are observ characteris Confirm tha	ed, exposures are ation ratios are ex at RMMs and OCs	e not expected to kpected to be le s are as describ	ed or of equivalent e	ed DNELs and th	
1. Short title of Exposure Scenario: Use in coatings – industrial					
Main User Gr Sector of use Process cate	gory	prepar : SU3:   : PROC PROC contro	Industrial uses: Use rations at industrial s Industrial Manufactu 1: Use in closed pro 2: Use in closed, co Iled exposure 3: Use in closed bat lation)	ites ring (all) icess, no likelihoc ntinuous process	od of exposure with occasional
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	<ul> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC7: Industrial spraying</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</li> <li>PROC10: Roller application or brushing</li> <li>PROC13: Treatment of articles by dipping and pouring</li> <li>PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization</li> <li>PROC15: Use as laboratory reagent</li> </ul>
Environmental release category	: <b>ERC4:</b> Industrial use of processing aids in processes and products, not becoming part of articles
	: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.
Environment factors not influenced b Remarks	<b>by risk management</b> : Not applicable
	Not applicable
Remarks <b>Fechnical conditions and measures /</b> Remarks <b>2.2 Contributing scenario controll</b> <b>PROC4, PROC5, PROC8a, PROC8</b> <b>n closed process, no likelihood o</b> <b>occasional controlled exposure, L</b> <b>Jse in batch and other process (s</b> <b>Mixing or blending in batch proce</b> <b>multistage and/ or significant con</b> <b>icharging/discharging) from/to ve</b> <b>Fransfer of substance or preparat</b>	<ul> <li>Not applicable</li> <li>Organizational measures</li> <li>A quantitative risk assessment is not required for the</li> </ul>

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Treatment of articles by dipping	e, including weighing), Roller application or brushing, g and pouring, Production of preparations or articles by ion, pelletization, Use as laboratory reagent
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Organizational measures to prever Do not ingest. If swallowed then see	nt /limit releases, dispersion and exposure ek immediate medical assistance.
2.2 Contributing scenario contr	olling worker exposure for: PROC7: Industrial spraying
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
	sure of the operation or equipment and provide extract ventilation at ertaken outdoors., Provide a good standard of general ventilation
Organizational measures to prever Do not ingest. If swallowed then see	nt /limit releases, dispersion and exposure ek immediate medical assistance.
Wear suitable gloves tested to EN3	<b>to personal protection, hygiene and health evaluation</b> 74., Wear chemically resistant gloves (tested to EN374) in training., Wear a full face respirator conforming to EN140 with Type
3. Exposure estimation and refe	erence to its source
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### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC7, CS97	ECETOC TRA		Worker – inhalation, long-term – systemic	1 mg/m3	0,2
			Worker – dermal, long- term – systemic	2,143 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,20
PROC7, CS34, CS10		Worker – inhalation, long-term – systemic	1,4 mg/m3	0,3	
		Worker – dermal, long- term – systemic	4,286 mg/kg/d	0,0	
			Worker – long-term – systemic Combined routes		0,29

#### PROC7: Industrial spraying CS97: Spraying (automatic/robotic)

PROC7: Industrial spraying CS34: Manual CS10: Spraying

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

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1

Confirm that RMMs and OCs are as described or of equivalent efficiency.

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

Main User Groups	: <b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sector of use	: SU 22: Professional uses: Public domain (administration,
Process category	<ul> <li>education, entertainment, services, craftsmen)</li> <li>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)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC10: Roller application or brushing</li> <li>PROC11: Non industrial spraying</li> <li>PROC13: Treatment of articles by dipping and pouring</li> <li>PROC15: Use as laboratory reagent</li> </ul>
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	<b>PROC19:</b> Hand-mixing with intimate contact and only PPE available
Environmental release category :	<b>ERC8a, ERC8d:</b> 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.
	ng environmental exposure for:ERC8a, ERC8d: Wide ng aids in open systems, Wide dispersive outdoor use s
Environment factors not influenced by Remarks :	<b>/ risk management</b> Not applicable
Technical conditions and measures / ( Remarks	<b>Drganizational measures</b> A quantitative risk assessment is not required for the environment.
PROC4, PROC5, PROC8a, PROC8k process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for fo or significant contact), Transfer of from/to vessels/large containers at preparation (charging/ discharging facilities, Roller application or brus	ng worker exposure for: PROC1, PROC2, PROC3, b, PROC10, PROC13, PROC15, PROC19: Use in closed e, Use in closed, continuous process with occasional I batch process (synthesis or formulation), Use in s) where opportunity for exposure arises, Mixing or rmulation of preparations and articles (multistage and, substance or preparation (charging/discharging) t non-dedicated facilities, Transfer of substance or g) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring, nixing with intimate contact and only PPE available
PROC4, PROC5, PROC8a, PROC8k process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for fo or significant contact), Transfer of from/to vessels/large containers at preparation (charging/ discharging facilities, Roller application or brus Use as laboratory reagent, Hand-m Product characteristics	b, PROC10, PROC13, PROC15, PROC19: Use in closed e, Use in closed, continuous process with occasional d batch process (synthesis or formulation), Use in s) where opportunity for exposure arises, Mixing or rmulation of preparations and articles (multistage and, substance or preparation (charging/discharging) t non-dedicated facilities, Transfer of substance or g) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring,
PROC4, PROC5, PROC8a, PROC8k process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for fo or significant contact), Transfer of from/to vessels/large containers at preparation (charging/ discharging facilities, Roller application or brus Use as laboratory reagent, Hand-m Product characteristics Remarks	b, PROC10, PROC13, PROC15, PROC19: Use in closed e, Use in closed, continuous process with occasional d batch process (synthesis or formulation), Use in s) where opportunity for exposure arises, Mixing or rmulation of preparations and articles (multistage and substance or preparation (charging/discharging) t non-dedicated facilities, Transfer of substance or g) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring, hixing with intimate contact and only PPE available
PROC4, PROC5, PROC8a, PROC8k process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for fo or significant contact), Transfer of from/to vessels/large containers at preparation (charging/ discharging facilities, Roller application or brus Use as laboratory reagent, Hand-m Product characteristics Remarks	b, PROC10, PROC13, PROC15, PROC19: Use in closed e, Use in closed, continuous process with occasional d batch process (synthesis or formulation), Use in s) where opportunity for exposure arises, Mixing or rmulation of preparations and articles (multistage and/ substance or preparation (charging/discharging) t non-dedicated facilities, Transfer of substance or g) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring, nixing with intimate contact and only PPE available Liquid, vapour pressure < 0.5 kPa at STP
PROC4, PROC5, PROC8a, PROC8k process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for fo or significant contact), Transfer of from/to vessels/large containers at preparation (charging/ discharging facilities, Roller application or brus Use as laboratory reagent, Hand-m Product characteristics Remarks : Amount used Remarks : Frequency and duration of use	b, PROC10, PROC13, PROC15, PROC19: Use in closed b, Use in closed, continuous process with occasional d batch process (synthesis or formulation), Use in s) where opportunity for exposure arises, Mixing or rmulation of preparations and articles (multistage and/ substance or preparation (charging/discharging) t non-dedicated facilities, Transfer of substance or g) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring, nixing with intimate contact and only PPE available Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently)

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temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

Organizational measures to prevent /limit releases, dispersion and exposure

Do not ingest. If swallowed then seek immediate medical assistance.

2.2 Contributing scenario controlling worker exposure for: PROC11: Non industrial spraying

Amount used       Remarks       : Not applicable         Frequency and duration of use       Remarks       : Covers daily exposures up to 8 hours (unless stated differently)         Other operational conditions affecting workers exposure       : Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.         Technical conditions and measures       : Dravide extended of second			
Remarks       : Covers daily exposures up to 8 hours (unless stated differently)         Other operational conditions affecting workers exposure       Remarks         Remarks       : Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.         Technical conditions and measures			
Remarks       : Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.         Technical conditions and measures			
<b>Technical conditions and measures</b> Provide extraction ventilation at points where emissions occur., Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour), Ensure operation is undertaken outdoors.			
Organizational measures to prevent /limit releases, dispersion and exposure Do not ingest. If swallowed then seek immediate medical assistance., Avoid carrying out activities involving exposure for more than 4 hours.			
Conditions and measures related to personal protection, hygiene and health evaluation Wear suitable gloves tested to EN374.			

## 3. Exposure estimation and reference to its source

### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC11, CS34, CS10	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	2,8 mg/m3	0,5
			Worker – dermal, long- term – systemic	0,42856 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,5
PROC11, CS34, CS10	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	1,4 mg/m3	0,3
			Worker – dermal, long- term – systemic	21,428 mg/kg/d	0,2
			Worker – long-term – systemic Combined routes		0,46
PROC11: No	n industrial spray	ing			
CS34: Manua	al				
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CS10: Spraying

PROC11: Non industrial spraying CS34: Manual CS10: Spraying

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

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1

Confirm that RMMs and OCs are as described or of equivalent efficiency.

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

Main User Groups	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Sector of use	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Product category	<ul> <li>PC1: Adhesives, sealants</li> <li>PC4: Anti-Freeze and de-icing products</li> <li>PC8: Biocidal products (e.g. Disinfectants, pest control)</li> <li>PC9a: Coatings and paints, thinners, paint removers</li> <li>PC9b: Fillers, putties, plasters, modelling clay</li> <li>PC9c: Finger paints</li> <li>PC15: Non-metal-surface treatment products</li> <li>PC18: Ink and toners</li> <li>PC23: Leather tanning, dye, finishing, impregnation and care products</li> <li>PC24: Lubricants, greases, release products</li> <li>PC31: Polishes and wax blends</li> <li>PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> </ul>
Environmental release category	: <b>ERC8a, ERC8d:</b> 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.

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

Environment factors not influenced by risk management Remarks : Not applicable

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<b>Technical conditions and measures / C</b> Remarks :	A quantitative risk assessment is not required for the environment.
PC9b, PC9c, PC15, PC18, PC23, PC de-icing products, Biocidal product paints, thinners, paint removers, Fi Non-metal-surface treatment produce impregnation and care products, Lu	ng consumer exposure for: PC1, PC4, PC8, PC9a, 24, PC31, PC34: Adhesives, sealants, Anti-Freeze and its (e.g. Disinfectants, pest control), Coatings and llers, putties, plasters, modelling clay, Finger paints, cts, Ink and toners, Leather tanning, dye, finishing, ubricants, greases, release products, Polishes and and impregnating products; including bleaches and
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
Not applicable 1. Short title of Exposure Scenario: <b>Lubr</b> i	cants - Industrial
Main User Groups : Sector of use : Process category :	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU3: 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 PROC9: Transfer of substance or preparation into small
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	containers (dedicated filling line, including weighing) <b>PROC10:</b> Roller application or brushing <b>PROC13:</b> Treatment of articles by dipping and pouring <b>PROC17:</b> Lubrication at high energy conditions and in partly open process <b>PROC18:</b> Greasing at high energy conditions			
Environmental release category :	<b>ERC4, ERC7:</b> 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.			
	ng environmental exposure for:ERC4, ERC7: Industrial s and products, not becoming part of articles, sed systems			
Technical conditions and measures / O Remarks :	A quantitative risk assessment is not required for the environment.			
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, 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, 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				
Product characteristics Remarks :	Liquid, vapour pressure < 0.5 kPa at STP			
Amount used Remarks :	Not applicable			
Frequency and duration of use Remarks :	Covers daily exposures up to 8 hours (unless stated differently)			
Other operational conditions affecting Remarks :	workers exposure Assumes a good basic standard of occupational hygiene is			
SDS Number:100000013639	30/50			

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implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.

## Organizational measures to prevent /limit releases, dispersion and exposure

Do not ingest. If swallowed then seek immediate medical assistance.

## 2.2 Contributing scenario controlling worker exposure for: PROC7: Industrial spraying

Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used	
Remarks	: Not applicable
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions a	
Remarks	: Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.
Technical conditions and mea	Isures
Minimize exposure by partial e openings.	enclosure of the operation or equipment and provide extract ventilation at
	revent /limit releases, dispersion and exposure on seek immediate medical assistance., Automate activity where possible
5	
Conditions and measures rela	ted to personal protection, hygiene and health evaluation
	EN374., Wear suitable coveralls to prevent exposure to the skin.
Wear suitable gloves tested to	
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions	EN374., Wear suitable coveralls to prevent exposure to the skin.
Wear suitable gloves tested to 2.2 Contributing scenario c	EN374., Wear suitable coveralls to prevent exposure to the skin.
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics	EN374., Wear suitable coveralls to prevent exposure to the skin.
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks	EN374., Wear suitable coveralls to prevent exposure to the skin.
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used Remarks	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable e : Covers daily exposures up to 8 hours (unless stated differently)
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable e : Covers daily exposures up to 8 hours (unless stated differently)
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions a Remarks Technical conditions and mea	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable e : Covers daily exposures up to 8 hours (unless stated differently) affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently. Isures puipment., Minimize exposure by partial enclosure of the operation or
Wear suitable gloves tested to 2.2 Contributing scenario c energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions a Remarks Technical conditions and mea Restrict area of openings to eq equipment and provide extract	EN374., Wear suitable coveralls to prevent exposure to the skin. controlling worker exposure for: PROC18: Greasing at high : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable e : Covers daily exposures up to 8 hours (unless stated differently) affecting workers exposure : Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently. Isures puipment., Minimize exposure by partial enclosure of the operation or

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Do not ingest. If swallowed then seek immediate medical assistance.

Conditions and measures related to personal protection, hygiene and health evaluation Wear suitable gloves tested to EN374.

## 3. Exposure estimation and reference to its source

## Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC7, CS10 ECETOC TRA		Worker – inhalation, long-term – systemic	1 mg/m3	0,2	
			Worker – dermal, long- term – systemic	2,143 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,20
PROC18, CS17 ECETOC TRA		Worker – inhalation, long-term – systemic	1 mg/m3	0,2	
			Worker – dermal, long- term – systemic	0,6855 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,19

PROC7: Industrial spraying CS10: Spraying

PROC18: Greasing at high energy conditions

CS17: Operation and lubrication of high energy open equipment

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

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1

Confirm that RMMs and OCs are as described or of equivalent efficiency.

## 1. Short title of Exposure Scenario: Lubricants - Professional

Main User Groups Sector of use Process category	<ul> <li>SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)</li> <li>SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/</li> </ul>
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	discharging) from/ to vessels/ large containers at dedicated facilities <b>PROC9:</b> Transfer of substance or preparation into small containers (dedicated filling line, including weighing) <b>PROC10:</b> Roller application or brushing <b>PROC11:</b> Non industrial spraying <b>PROC13:</b> Treatment of articles by dipping and pouring <b>PROC17:</b> Lubrication at high energy conditions and in partly
	open process <b>PROC18:</b> Greasing at high energy conditions <b>PROC20:</b> Heat and pressure transfer fluids in dispersive, professional use but closed systems
Environmental release category	: <b>ERC8a, ERC8d, ERC9a, ERC9b:</b> 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.
of substances in closed system	
systems	<ul> <li>This substance only poses an acute risk, therefore a general population DNEL has not been derived, and an assessment of the risk from indirect exposure of man via the environment is not required.</li> </ul>
Frequency and duration of use Continuous exposure	: This substance only poses an acute risk, therefore a general population DNEL has not been derived, and an assessment o the risk from indirect exposure of man via the environment is not required.
Frequency and duration of use Continuous exposure	<ul> <li>This substance only poses an acute risk, therefore a general population DNEL has not been derived, and an assessment of the risk from indirect exposure of man via the environment is not required.</li> <li><b>d by risk management</b></li> <li>Not applicable</li> </ul>

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application or brushing, Non in	ers (dedicated filling line, including weighing), Roller idustrial spraying, Treatment of articles by dipping and nsfer fluids in dispersive, professional use but closed
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Organizational measures to preve Do not ingest. If swallowed then se	nt /limit releases, dispersion and exposure ek immediate medical assistance.
Lubrication at high energy con energy conditions	rolling worker exposure for: PROC17, PROC18: ditions and in partly open process, Greasing at high
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure Minimize exposure by partial enclo openings.	es sure of the operation or equipment and provide extract ventilation at
Organizational measures to preve Do not ingest. If swallowed then se	nt /limit releases, dispersion and exposure ek immediate medical assistance.
Conditions and measures related Wear suitable gloves tested to EN3	to personal protection, hygiene and health evaluation 374.
3. Exposure estimation and ref	erence to its source
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## Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC17, CS17	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,9
			Worker – dermal, long- term – systemic	0,2743 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,9
PROC17, CS17	ECETOC TRA		Worker – inhalation,	5 mg/m3	0,90
Modified		long-term – systemic Worker – dermal, long- term – systemic	1,3715 mg/kg/d	0,0	
			Worker – long-term – systemic Combined routes		0,91
PROC18, CS17	ECETOC TRA		Worker – inhalation, long-term – systemic	5 mg/m3	0,9
			Worker – dermal, long- term – systemic	0,6855 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,90
CS17: Opera		n of high energ	y open equipment	orks inside the	e boundaries se
CS17: Opera	ation and lubricatio to Downstream sure Scenario recommended risk ved, exposures are sation ratios are ex	n of high energ User to evalue management not expected to pected to be le	uate whether he w measures (RMMs) a to exceed the predict ess than 1	nd operational co ed DNELs and th	nditions (OCs)
CS17: Opera Guidance to by the Expose When the are observ characteris Confirm th	ation and lubricatio to Downstream sure Scenario recommended risk ved, exposures are sation ratios are ex	n of high energ User to evalue management not expected to pected to be less are as describ	uate whether he w measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent e	nd operational co ed DNELs and th	nditions (OCs)
CS17: Opera . Guidance f by the Expos When the f are observ characteris Confirm th	ation and lubricatio to Downstream sure Scenario recommended risk ved, exposures are sation ratios are ex sation ratios are ex lat RMMs and OCs Exposure Scenario	User to evalue management a not expected to pected to be less are as describ to: Lubricants : SU 21	measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent e <b>s - Consumer</b> <b>1:</b> Consumer uses: P	nd operational co ed DNELs and th efficiency.	nditions (OCs) e resulting risk
CS17: Opera - Guidance to by the Expose When the are observed characteristic Confirm th . Short title of	to Downstream sure Scenario recommended risk ved, exposures are sation ratios are ex lat RMMs and OCs Exposure Scenario roups	User to evalue management management mot expected to pected to be less are as describ to: Lubricants : SU 21 = con : SU 21	uate whether he w measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent es <b>- Consumer</b> 1: Consumer uses: P sumers) 1: Consumer uses: P	nd operational co ed DNELs and th efficiency. rivate households	onditions (OCs) le resulting risk s (= general public
CS17: Opera	ation and lubricatio	User to evalue management mot expected to pected to be less are as describe o: Lubricants : SU 21 = con : SU 21 = con	measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent e <b>a - Consumer</b> 1: Consumer uses: P sumers)	nd operational co ed DNELs and th efficiency. rivate households	onditions (OCs) le resulting risk s (= general public s (= general public
CS17: Opera . Guidance for the Expose When the formation of the expose When the formation of the exposed when the formation of the exposed Confirm the formation of the exposed Confirm the formation of the exposed Main User Grades Sector of use Product cates	ation and lubricatio	User to evalue User to evalue a management a not expected to be less are as described by: Lubricants : SU 21 = con : SU 21 :	uate whether he w measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent e <b>c Consumer</b> 1: Consumer uses: P sumers) 1: Consumer uses: P sumers)	nd operational co ed DNELs and th efficiency. rivate households s, release product <b>ERC9b:</b> Wide dis systems, Wide d open systems, Wi n closed systems	onditions (OCs) le resulting risk s (= general public s (= general public ts persive indoor use lispersive outdoor de dispersive s, Wide dispersive
CS17: Opera 4. Guidance to by the Expose When the fare observing characteris Confirm th 1. Short title of Main User Gi Sector of use Product cates	ation and lubricatio	User to evalue management not expected to pected to be less are as describe o: Lubricants : SU 21 = con : SU 21 = con : PC24 y : ERC8 of pro- use of indoo outdo : Covel and o opera	measures (RMMs) a to exceed the predict ess than 1 bed or of equivalent es <b>- Consumer</b> <b>1:</b> Consumer uses: P sumers) <b>1:</b> Consumer uses: P	nd operational co ed DNELs and th efficiency. rivate households rivate households s, release product <b>ERC9b:</b> Wide dis systems, Wide d open systems, Wide d	e resulting risk s (= general public s (= general public s (= general public ts persive indoor use ispersive outdoor de dispersive s, Wide dispersive s, Wide dispersive

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2.2 Contributing scenario contro greases, release products	olling con	sumer exposure f	for: PC24: Lub	ricants,
Product characteristics Concentration of the Substance in	:			
Mixture/Article Remarks	Spray	5		
Amount used				
Remarks	: 73 g : Sprays	5		
Frequency and duration of use				
Exposure duration	: 0,17 h			
Frequency of use Remarks	: 1 time			
Remarks	: Spray	5		
Human factors not influenced by ris	sk manage	ment		
Exposed skin area	: Skin			
	: 428,75	5 cm2		
Remarks	: Sprays	S		
Other siver exerctional conditions				
Other given operational conditions Outdoor / Indoor		consumers exposu	re	
Room size	: 20 M3			
Ventilation rate per hour	: 0,6			
Remarks	: 0,6 : Sprays			
Kentarks	. Opray.	5		
Use frequency	: 6 days	s/year		
Remarks	: Spray			
Conditions and measures related to	nrotectio	n of consumer (e a	behavioral adv	vice personal
protection and hygiene)	protectio	ii oi consumer (e.g		ice, personal
Consumer Measures	: Do no	t ingest. If swallowed	then seek imme	diate medical
	assista	•		
Remarks		ecific Risk Managem	ent Measures ide	entified beyond
		Operational Conditic		•
- Experimentian and rate	ronoo to i	to oouroo		
3. Exposure estimation and refe		13 300108		
Norkers/Consumers				
Contributing Exposure	Specific	Value type	Level of Exposure	Risk characterizatio

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PC24, PC24_3	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	35,7 mg/kg/d	0,07
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	7500 mg/m3	0,00
			Consumer – long-term – systemic Combined		0,07
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	routes
PC24: Lubricants, greases, release PC24_3: Sprays	<pre>&gt; products</pre>
4. Cuidenes to Downstroom Us	er te eveluete whether he werke incide the heunderice est
by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
1. Short title of Exposure Scenario: N	letal working fluids / rolling oils - Industrial
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	preparations at industrial sites : <b>SU3:</b> Industrial Manufacturing (all)
Process category	: <b>PROC1:</b> Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	<b>PROC3:</b> Use in closed batch process (synthesis or formulation)
	PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises <b>PROC5:</b> 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
	<b>PROC8b:</b> 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) <b>PROC10:</b> Roller application or brushing
	<b>PROC13:</b> Treatment of articles by dipping and pouring
	<b>PROC17:</b> 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.
•	olling environmental exposure for:ERC4: Industrial use of nd products, not becoming part of articles
א הרביייווא מועי ווו אוטרבייבי מ	na producto, not becoming part of articles
Frequency and duration of use Continuous exposure	: This substance only poses an acute risk, therefore a general
-	
SDS Number:100000013639	37/50

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	population DNEL has not been derived, and an assessment of the risk from indirect exposure of man via the environment is not required.	
Environment factors not influence Remarks	d by risk management : Not applicable	
Technical conditions and measure Remarks	es / Organizational measures : A quantitative risk assessment is not required for the environment.	
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, 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), 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), Treatment of articles by dipping and pouring, Lubrication at high energy		
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP	
Amount used Remarks	. Not oppliaghte	
	: Not applicable	
Frequency and duration of use Remarks	<ul> <li>Not applicable</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>	
	: Covers daily exposures up to 8 hours (unless stated differently)	
Remarks Other operational conditions affect Remarks	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>nt /limit releases, dispersion and exposure</li> </ul>	
Remarks Other operational conditions affect Remarks Organizational measures to prever Do not ingest. If swallowed then see	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>nt /limit releases, dispersion and exposure</li> </ul>	
Remarks Other operational conditions affect Remarks Organizational measures to prever Do not ingest. If swallowed then see	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> <li>Int /limit releases, dispersion and exposure ek immediate medical assistance.</li> </ul>	
Remarks Other operational conditions affect Remarks Organizational measures to prever Do not ingest. If swallowed then see 2.2 Contributing scenario contr Product characteristics Remarks	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> <li>Int /limit releases, dispersion and exposure ek immediate medical assistance.</li> </ul>	
Remarks Other operational conditions affect Remarks Organizational measures to prever Do not ingest. If swallowed then see 2.2 Contributing scenario contr Product characteristics Remarks Amount used	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> <li>Int /limit releases, dispersion and exposure ek immediate medical assistance.</li> <li>colling worker exposure for: PROC7: Industrial spraying</li> <li>Liquid, vapour pressure &lt; 0.5 kPa at STP</li> </ul>	

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Other operatio Remarks	nal conditions af	: Assur tempe	ers exposure mes use at not more erature, unless stated lard of occupational h	d differently., Assu	umes a good basic
	<b>ditions and meas</b> osure by partial en		operation or equipme	ent and provide ex	stract ventilation at
			eases, dispersion a		vity where possible.
Wear suitable		EN374), covera	I protection, hygien all and eye protectior		
2.2 Contribut brushing	ing scenario co	ontrolling wo	rker exposure for:	: PROC10: Roll	er application or
Product chara	cteristics	· Liquic	d, vapour pressure <	0.5 kPa at STP	
		. Eiquic			
Amount used Remarks		: Not a	pplicable		
Frequency and Remarks	I duration of use		rs daily exposures up	o to 8 hours (unle	ss stated
Other operatio Remarks	nal conditions af	: Assur tempe	e <b>rs exposure</b> mes use at not more erature, unless stated lard of occupational h	d differently., Assu	umes a good basic
	<b>ditions and meas</b> d standard of gen		ed ventilation (10 to 1	5 air changes pe	r hour)
			eases, dispersion a te medical assistance		
	<b>d measures relat</b> gloves tested to E	•	I protection, hygien	e and health eva	luation
3. Exposure e	estimation and	reference to	its source		
Workers/Cons	umers				
Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC7, CS10	ECETOC TRA		Worker – inhalation, long-term – systemic	1 mg/m3	0,2
			Worker – dermal, long- term – systemic	2,143 mg/kg/d	0,0
			Worker – long-term –		0,20
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PROC10. CS13         ECETOC TRA         Worker - inhalation         1.5 mg/m3         0.3           Image:	Version 1.17				Revisio	n Date 2023-05-1
PROC10, CS13       ECETOC TRA       Worker - Indiation, 1.5 mg/m3       0,3         Image: Im			-			
Ung-term - systemic term - systemic         27.43 mg/kg/d         0.3           Worker - demail.long         27.43 mg/kg/d         0.3           Worker - long-term - systemic Combined routes         0.54         0.54           PROC7: Industrial spraying CS10: Spraying         0.54         0.54           CS10: Spraying         0.53         0.54           CS10: Spraying         CS10: Spraying         0.53           CS10: Spraying         CS10: Spraying         0.54           When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1         Confirm that RMMs and OCs are as described or of equivalent efficiency.           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)           Process category         :         PROC61: Use in closed process, no likelihood of exposure PROC2: Use in closed batch process (synthesis or formulation)           PROC83: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at decicate facilities           PROC81: Transfer of substance or preparation in charging/ discharging) from/to vessels/large containers at decicate facilities           PROC11: Use in	PROC10, CS13	ECETOC TRA			1,5 mg/m3	0,3
Worker-ingstem - systemic Combined routes         0,54           PROC7: Industrial spraying CS10: Spraying         routes         0,54           Guidance to Downstream User to evaluate whether he works inside the boundaries of the provide strategies of the system strat					27,43 mg/kg/d	0,3
PROC7: Industrial spraying CS10: Spraying PROC10: Roller application or brushing CS13: Manual roller application or brushing. Guidance to Downstream User to evaluate whether he works inside the boundaries y the Exposure Scenario When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1 Confirm that RMMs and OCs are as described or of equivalent efficiency. Short title of Exposure Scenario: Main User Groups Estor of use 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 process, no likelihood of exposure PROC2: 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 PROC3: Transfer of substance or preparation into small containers (dedicated facilities PROC3: Transfer of substance or preparation into small containers (dedicated facilities PROC1: Roller application or brushing PROC1: Roller application at high energy conditions and in par open process Environmental release category Environmental release in closed systems, Wide dispersive indoor of processing aids in open systems, Wide dispersive indoor of processing aids in open systems, W			term – sy	stemic		0,54
CS10: Spraying         PROC10: Roller application or brushing         CS13: Manual roller application or brushing.         Guidance to Downstream User to evaluate whether he works inside the boundaries of the texposure Scenario         When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1         Confirm that RMMs and OCs are as described or of equivalent efficiency.         Short tille 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 occasion controlled exposure         PROC8: 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 facilities         PROC9: Roller application or brushing         PROC11: Non industrial spraying         PROC11: Roller application or brushing         PROC11: Roller application or brushing         PROC11: Coller application or brushing         P						
PROC10: Roller application or brushing.         Construction         Construction         Construction         When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1         Confirm that RMMs and OCs are as described or of equivalent efficiency.         Short title of Exposure Scenario:         Main User Groups       :         Subscription       :         Sector of use       :         Process category       :         PROC2: Use in closed process, no likelihood of exposure controlled exposure         PROC3: Use in closed process, no likelihood of exposure controlled exposure         PROC61: Use in closed process, no likelihood of exposure controlled exposure         PROC8: 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)         PROC11: Non industrial spraying         PROC11: Non industrial spraying         PROC11: Non industrial sin open systems, Wide dispersive indoor of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive indoor use of substances in closed systems						
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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 par open processEnvironmental release category:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse of processing aids in open systems, Wide dispersive outdoor use of substances in closed systems, Wide dispersive indoor use of substances in closed systemsFurther information:Covers the use in formulated MWFs/rolling oils including				of outpote	noo or proporatio	n into omoli
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 par open process         Environmental release category       :         ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse of processing aids in open systems, Wide dispersive outdouse of substances in closed systems, Wide dispersive indoor use of substances in closed systems         Further information       :         Covers the use in formulated MWFs/rolling oils including						
PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in par open process         Environmental release category       :         ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse 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 in formulated MWFs/rolling oils including						signing)
PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in par open process         Environmental release category       : ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse 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 in formulated MWFs/rolling oils including						
open process         Environmental release category         :       ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse 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 in formulated MWFs/rolling oils including						nd pouring
<ul> <li>Environmental release category</li> <li>ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor of processing aids in open systems, Wide dispersive outdouse of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems</li> <li>Further information</li> <li>Covers the use in formulated MWFs/rolling oils including</li> </ul>			PROC17: Lubrica	ation at hiç	h energy condition	ons and in partly
of processing aids in open systems, Wide dispersive outdouse 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 in formulated MWFs/rolling oils including			open process			
of processing aids in open systems, Wide dispersive outdouse 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 in formulated MWFs/rolling oils including	Environmente	l rologog gotogory			PCOL Wide dien	oraiva indoar ua
use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispers outdoor use of substances in closed systems         Further information       :         Covers the use in formulated MWFs/rolling oils including	Environmenta	a release calegory				
indoor use of substances in closed systems, Wide dispers outdoor use of substances in closed systems         Further information         :         Covers the use in formulated MWFs/rolling oils including						
Further information       :         Covers the use in formulated MWFs/rolling oils including						
Covers the use in formulated MWFs/rolling oils including						
Covers the use in formulated MWFs/rolling oils including					-	
	Further inforn	nation	:	fam. 1 ·		the track of the
transier operations, rolling and annealing activities						
cutting/machining activities, automated and manual						
application of corrosion protections (including brushing,						
						,

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	dipping and spraying), equipment maintenance, draining and disposal of waste oils.
ERC9a, ERC9b: Wide dispers dispersive outdoor use of pro	ntrolling environmental exposure for:ERC8a, ERC8d, sive indoor use of processing aids in open systems, Wide ocessing aids in open systems, Wide dispersive indoor use ems, Wide dispersive outdoor use of substances in closed
Frequency and duration of use Continuous exposure	: This substance only poses an acute risk, therefore a general population DNEL has not been derived, and an assessment of the risk from indirect exposure of man via the environment is not required.
Environment factors not influen Remarks	ced by risk management : Not applicable
Technical conditions and measu Remarks	<ul> <li>ares / Organizational measures</li> <li>A quantitative risk assessment is not required for the environment.</li> </ul>
	ntrolling worker exposure for: PROC1, PROC2, PROC8a,
PROC8b, PROC9, PROC10, P Use in closed, continuous pro substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large contai preparation into small contai	ntrolling worker exposure for: PROC1, PROC2, PROC8a, PROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring
PROC8b, PROC9, PROC10, P Use in closed, continuous pro substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large contai preparation into small contain application or brushing, Trea	ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller
PROC8b, PROC9, PROC10, P Use in closed, continuous pro substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large contai preparation into small contain application or brushing, Trea Product characteristics Remarks	ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring
PROC8b, PROC9, PROC10, P Use in closed, continuous pro substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large contai preparation into small contain application or brushing, Trea Product characteristics Remarks Amount used Remarks	ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring : Liquid, vapour pressure < 0.5 kPa at STP
PROC8b, PROC9, PROC10, P Use in closed, continuous pro substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large contai preparation into small contain application or brushing, Trea Product characteristics Remarks Amount used Remarks Frequency and duration of use	ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at isfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Assumes use at not more than 20°C above ambient
<ul> <li>PROC8b, PROC9, PROC10, P</li> <li>Use in closed, continuous presubstance or preparation (ch non-dedicated facilities, Transfrom/ to vessels/ large contain preparation into small contain application or brushing, Trea</li> <li>Product characteristics Remarks</li> <li>Amount used Remarks</li> <li>Frequency and duration of use Remarks</li> <li>Other operational conditions aff Remarks</li> <li>Other operational measures to present t</li></ul>	<ul> <li>ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring</li> <li>: Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>: Not applicable</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
<ul> <li>PROC8b, PROC9, PROC10, P</li> <li>Use in closed, continuous prosubstance or preparation (ch</li> <li>non-dedicated facilities, Transfrom/ to vessels/ large contained preparation into small contained application or brushing, Trea</li> <li>Product characteristics</li> <li>Remarks</li> <li>Amount used</li> <li>Remarks</li> <li>Frequency and duration of use</li> <li>Remarks</li> <li>Other operational conditions aff</li> <li>Remarks</li> <li>Other operational measures to previous not ingest. If swallowed then set the set of the s</li></ul>	<ul> <li>ROC13: Use in closed process, no likelihood of exposure, ocess with occasional controlled exposure, Transfer of arging/discharging) from/to vessels/large containers at sfer of substance or preparation (charging/ discharging) ners at dedicated facilities, Transfer of substance or ners (dedicated filling line, including weighing), Roller tment of articles by dipping and pouring</li> <li>: Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>: Not applicable</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> </ul> ecting workers exposure <ul> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>

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### spraying

Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of us Remarks	
Other operational conditions Remarks	
	en outdoors., Provide a good standard of general ventilation (not less than Minimize exposure by partial enclosure of the operation or equipment and
	prevent /limit releases, dispersion and exposure en seek immediate medical assistance.
Wear chemically resistant glov	ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with specific activity training., Wear a 40 with Type A filter or better., Wear suitable gloves tested to EN374.
2.2 Contributing scenario o	controlling worker exposure for: PROC17: Lubrication at high
2.2 Contributing scenario of energy conditions and in p Product characteristics	controlling worker exposure for: PROC17: Lubrication at high partly open process
2.2 Contributing scenario of energy conditions and in p Product characteristics Remarks Amount used	controlling worker exposure for: PROC17: Lubrication at high bartly open process : Liquid, vapour pressure < 0.5 kPa at STP
2.2 Contributing scenario of energy conditions and in p Product characteristics Remarks Amount used Remarks	controlling worker exposure for: PROC17: Lubrication at high bartly open process : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable
2.2 Contributing scenario of energy conditions and in p Product characteristics Remarks Amount used	controlling worker exposure for: PROC17: Lubrication at high bartly open process : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable
2.2 Contributing scenario of energy conditions and in p Product characteristics Remarks Amount used Remarks Frequency and duration of us	<ul> <li>controlling worker exposure for: PROC17: Lubrication at high bartly open process</li> <li>: Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>: Not applicable</li> <li>Se</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
2.2 Contributing scenario of energy conditions and in p Product characteristics Remarks Amount used Remarks Frequency and duration of us Remarks Other operational conditions Remarks Technical conditions and mea	<ul> <li>controlling worker exposure for: PROC17: Lubrication at high bartly open process</li> <li>Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>Not applicable</li> <li>Se</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>affecting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<ul> <li>2.2 Contributing scenario of energy conditions and in p</li> <li>Product characteristics Remarks</li> <li>Amount used Remarks</li> <li>Frequency and duration of us Remarks</li> <li>Other operational conditions Remarks</li> <li>Technical conditions and measures to p</li> <li>Organizational measures to p</li> </ul>	<ul> <li>controlling worker exposure for: PROC17: Lubrication at high bartly open process</li> <li>Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>Not applicable</li> <li>Se <ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul> </li> <li>affecting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> </ul>
<ul> <li>2.2 Contributing scenario of energy conditions and in p</li> <li>Product characteristics Remarks</li> <li>Amount used Remarks</li> <li>Frequency and duration of us Remarks</li> <li>Other operational conditions Remarks</li> <li>Technical conditions and measures to p Do not ingest. If swallowed the</li> </ul>	<ul> <li>controlling worker exposure for: PROC17: Lubrication at high bartly open process</li> <li>Liquid, vapour pressure &lt; 0.5 kPa at STP</li> <li>Not applicable</li> <li>Se <ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul> </li> <li>affecting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> <li>asures <ul> <li>enclosure of the operation or equipment and provide extract ventilation at prevent /limit releases, dispersion and exposure</li> <li>en seek immediate medical assistance.</li> </ul> </li> </ul>

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### 3. Exposure estimation and reference to its source

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC11, CS10	ECETOC TRA		Worker – inhalation, long-term – systemic	1,4 mg/m3	0,3
			Worker – dermal, long- term – systemic	21,428 mg/kg/d	0,2
			Worker – long-term – systemic Combined routes		0,46
PROC11, CS10	ECETOC TRA		Worker – inhalation, long-term – systemic	0,4 mg/m3	0,1
			Worker – dermal, long- term – systemic	2,1428 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,09
PROC17, CS79	ECETOC TRA		Worker – inhalation, long-term – systemic	5 mg/m3	0,9
			Worker – dermal, long- term – systemic	1,3715 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,91

PROC11: Non industrial spraying CS10: Spraying

PROC11: Non industrial spraying CS10: Spraying

PROC17: Lubrication at high energy conditions and in partly open process CS79: Metal machining operations

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

When the recommended risk management measures (RMMs) and operational conditions (OCs) are observed, exposures are not expected to exceed the predicted DNELs and the resulting risk characterisation ratios are expected to be less than 1 Confirm that RMMs and OCs are as described or of equivalent efficiency.

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

: SU 3: Industrial uses: Uses of substances as such or in Main User Groups preparations at industrial sites Sector of use : **SU3:** Industrial Manufacturing (all) : **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 SDS Number:100000013639 43/50

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	<ul> <li>(charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li><b>PROC8b:</b> Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities</li> <li><b>PROC9:</b> Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</li> </ul>	
Environmental release category :	ERC7: Industrial use of substances in closed systems	
Further information :	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	
2.1 Contributing scenario controllin substances in closed systems	ng environmental exposure for:ERC7: Industrial use of	
Environment factors not influenced by Remarks :	risk management Not applicable	
Technical conditions and measures / O Remarks :	<b>Organizational measures</b> A quantitative risk assessment is not required for the environment.	
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)		
<b>Amount used</b> Remarks :	Not applicable	
Organizational measures to prevent /lin Do not ingest. If swallowed then seek im		
3. Exposure estimation and referen	ce to its source	
Remarks: Not applicable		
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Not applicable . Short title of Exposure Scenario: <b>F</b>	unctional Fluids - Professional
Main User Groups	: <b>SU 22:</b> Professional uses: Public domain (administration,
	education, entertainment, services, craftsmen)
Sector of use	: <b>SU 22:</b> Professional uses: Public domain (administration,
Process category	education, entertainment, services, craftsmen) : <b>PROC1:</b> Use in closed process, no likelihood of exposure
i locoo oatogory	<b>PROC2:</b> Use in closed, continuous process with occasional
	controlled exposure
	<b>PROC3:</b> 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
	<b>PROC9:</b> Transfer of substance or preparation into small
	containers (dedicated filling line, including weighing) <b>PROC20:</b> 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 ir
	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.
dispersive indoor use of substa	olling environmental exposure for:ERC9a, ERC9b: Wide ances in closed systems, Wide dispersive outdoor use of
lispersive indoor use of substa substances in closed systems	ances in closed systems, Wide dispersive outdoor use of
lispersive indoor use of substa substances in closed systems	ances in closed systems, Wide dispersive outdoor use of
dispersive indoor use of substa substances in closed systems Environment factors not influence	ances in closed systems, Wide dispersive outdoor use of d by risk management
dispersive indoor use of substa substances in closed systems Environment factors not influence Remarks	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable
lispersive indoor use of substa substances in closed systems Environment factors not influence Remarks	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable s / Organizational measures : A quantitative risk assessment is not required for the
lispersive indoor use of substa substances in closed systems Environment factors not influence Remarks Technical conditions and measure	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable s / Organizational measures
dispersive indoor use of substa substances in closed systems Environment factors not influence Remarks Technical conditions and measure	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable s / Organizational measures : A quantitative risk assessment is not required for the
dispersive indoor use of substa substances in closed systems Environment factors not influence Remarks Fechnical conditions and measure	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable s / Organizational measures : A quantitative risk assessment is not required for the
Lispersive indoor use of substate Substances in closed systems Environment factors not influence Remarks Cechnical conditions and measure Remarks 2.2 Contributing scenario contro PROC8a, PROC9, PROC20: Use closed, continuous process with process (synthesis or formulation	ances in closed systems, Wide dispersive outdoor use of d by risk management : Not applicable s / Organizational measures : A quantitative risk assessment is not required for the

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	ration into small containers (dedicated filling line, pressure transfer fluids in dispersive, professional use
<b>Amount used</b> Remarks	: Not applicable
3. Exposure estimation and refe	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: <b>F</b>	unctional Fluids - Consumer
Main User Groups	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Sector of use	<ul> <li>SU 21: Consumer uses: Private households (= general public = consumers)</li> </ul>
Product category	: PC16: Heat transfer fluids PC17: Hydraulic fluids
Environmental release category	: <b>ERC9a, ERC9b:</b> 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.
2.1 Contributing scenario contr	olling environmental exposure for:ERC9a, ERC9b: Wide
	ances in closed systems, Wide dispersive outdoor use of
Environment factors not influence Remarks	d by risk management : Not applicable
Technical conditions and measure Remarks	<ul> <li>A quantitative risk assessment is not required for the environment.</li> </ul>
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2.2 Contributing scenario controlling consumer exposure for: PC16, PC17: Heat transfer fluids, Hydraulic fluids		
Amount used Remarks	: Not applicable	
	ated to protection of consumer (e.g. behavioral advice, personal	
protection and hygiene) Consumer Measures	: Do not ingest. If swallowed then seek immediate medical	
Remarks	<ul> <li>assistance.</li> <li>Because the use is not expected to result in aerosol exposures, a quantitative risk assessment is not required for human health to examine the identified hazard of acute inhalation.</li> </ul>	
3. Exposure estimation and	d reference to its source	
Remarks: Not applicable		
	n User to evaluate whether he works inside the boundaries se	
by the Exposure Scenario	ario: Use in polymer production – industrial	
by the Exposure Scenario	ario: <b>Use in polymer production – industrial</b> : <b>SU 3:</b> Industrial uses: Uses of substances as such or in	
by the Exposure Scenario Not applicable 1. Short title of Exposure Scena	ario: <b>Use in polymer production – industrial</b> : <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites : <b>SU 10, SU3:</b> Formulation [mixing] of preparations and/ or re-	
by the Exposure Scenario Not applicable 1. Short title of Exposure Scena Main User Groups	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional</li> </ul>	
by the Exposure Scenario Not applicable <u>1. Short title of Exposure Scena</u> Main User Groups Sector of use	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>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</li> </ul>	
by the Exposure Scenario Not applicable <u>1. Short title of Exposure Scena</u> Main User Groups Sector of use	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>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)</li> <li>PROC4: Use in batch and other process (synthesis) where</li> </ul>	
Not applicable 1. Short title of Exposure Scena Main User Groups Sector of use	<ul> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> </ul>	
by the Exposure Scenario Not applicable <u>1. Short title of Exposure Scena</u> Main User Groups Sector of use	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant</li> </ul>	
Not applicable 1. Short title of Exposure Scena Main User Groups Sector of use	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>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)</li> <li>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)</li> <li>PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> </ul>	
Not applicable I. Short title of Exposure Scena Main User Groups Sector of use	<ul> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC6: Calendering operations</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated</li> </ul>	
by the Exposure Scenario Not applicable <u>1. Short title of Exposure Scena</u> Main User Groups Sector of use	<ul> <li>ario: Use in polymer production – industrial</li> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU 10, SU3: Formulation [mixing] of preparations and/ or repackaging (excluding alloys), Industrial Manufacturing (all)</li> <li>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)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC6: Calendering operations</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/discharging)</li> </ul>	

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Synfluid® PAO 2.5 cSt		
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Environmental release category :	<b>ERC4, ERC6c:</b> 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).	
Industrial use of processing aids in	ng environmental exposure for:ERC4, ERC6c: n processes and products, not becoming part of rs for manufacture of thermoplastics	
Environment factors not influenced by Remarks :	y risk management Not applicable	
Technical conditions and measures / ( Remarks :	Organizational measures A quantitative risk assessment is not required for the environment.	
PROC4, PROC5, PROC6, PROC8a, no likelihood of exposure, Use in o exposure, Use in closed batch pro- other process (synthesis) where o batch processes for formulation of significant contact), Calendering o (charging/discharging) from/to ves Transfer of substance or preparation	ng worker exposure for: PROC1, PROC2, PROC3, PROC8b, PROC14, PROC15: Use in closed process, closed, continuous process with occasional controlled cess (synthesis or formulation), Use in batch and pportunity for exposure arises, Mixing or blending in f preparations and articles (multistage and/ or operations, Transfer of substance or preparation ssels/large containers at non-dedicated facilities, on (charging/ discharging) from/ to vessels/ large Production of preparations or articles by tabletting, ion, Use as laboratory reagent	
Amount used Remarks :	Not applicable	
Organizational measures to prevent /limit releases, dispersion and exposure Do not ingest. If swallowed then seek immediate medical assistance.		
3. Exposure estimation and referer	nce to its source	
Remarks: Not applicable		
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<ul> <li>4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario</li> <li>Not applicable</li> <li>1. Short title of Exposure Scenario: Other consumer uses</li> </ul>	
Sector of use	<ul> <li>SU 21: Consumer uses: Private households (= general public = consumers)</li> </ul>
Product category	: <b>PC28:</b> Perfumes, fragrances <b>PC39:</b> Cosmetics, personal care products
Environmental release category	: <b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
	olling environmental exposure for:ERC8a, ERC8d: Wide ssing aids in open systems, Wide dispersive outdoor use ems
Environment factors not influenced Remarks	d by risk management : Not applicable
Technical conditions and measure Remarks	<ul> <li>s / Organizational measures</li> <li>A quantitative risk assessment is not required for the environment.</li> </ul>
2.2 Contributing scenario contro fragrances, Cosmetics, persona	olling consumer exposure for: PC28, PC39: Perfumes, al care products
Amount used Remarks	: Not applicable
Conditions and measures related to	o protection of consumer (e.g. behavioral advice, personal
protection and hygiene) Consumer Measures	<ul> <li>Do not ingest. If swallowed then seek immediate medical assistance.</li> </ul>
3. Exposure estimation and refe	erence to its source
Remarks: Not applicable	
SDS Number:100000013639	49/50

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

Not applicable

SDS Number:100000013639

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