

Synfluid® PAO 2 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 cSt
Material	: 1111737, 1111736, 1111732, 1082190, 1079695, 1079661,
	1079651, 1079671

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Decene, Dimer,	68649-11-6	Chevron Phillips Chemical Company LP
Hydrogenated	500-228-5	01-2119493069-28-0003
1-Decene, Dimer,	68649-11-6	Chevron Phillips Chemicals International NV
Hydrogenated	500-228-5	01-2119493069-28-0002

1.2

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

Relevant Identified Uses Supported	 Manufacture Distribution Use as an intermediate Formulation Use in coatings – industrial Use in coatings – professional Use in Coatings - Consumer Lubricants - Industrial Lubricants - Professional Lubricants - Professional Lubricants - Consumer Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils – Professional Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer Use in polymer production – industrial Agrochemical uses Agrochemical uses Other consumer uses
SDS Number:100000010948	1/53

Version 1.17

SAFETY DATA SHEET

Revision Date 2023-05-19

1.3	Details of the supplier of the safety data sheet					
	Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380				
	Local :	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium				
		SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com				
1.4	Emergency telephone:					
SD	Mexico CHEMTREC 01-800- South America SOS-Cotec Ir Argentina: +(54)-115983943 EUROPE: BIG +32.14.58454 Austria: VIZ +43 1 406 43 43 Belgium: 070 245 245 (24 ho Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 Cyprus: 1401 Czech Republic: Toxicologica Denmark: Danish Poison Cer Estonia: BIG +32.14.584545 Finland: 0800 147 111 09 47 France: ORFILA number (INF Germany: BIG +32.14.584544 Greece: (0030) 2107793777 Hungary: +36-80-201-199 (24 Iceland: 543 2222 (24 hours/ Ireland: BIG +32.14.584545 (Italy: BIG +32.14.584545 (Ita	 I) nr 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 681-9531 (24 hours) nside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 1 15 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) nours/day, 7 days/week) hours/day, 7 days/week) al Information Center +420 224 919 293, +420 224 915 402 nter (Giftlinjen): +45 8212 1212 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) 4 hours/day, 7 days/week) (aday, 7 days/week) (phone) or +32.14583516 (telefax) one) or +32.14583516 (telefax) e Service, phone number: 112; Toxicology and Sepsis Clinic tion Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 64545 (phone) or +32.14583516 (telefax) 2 600 (24 hours/day, 7 days/week) (0)88 755 8000 rs/day, 7 days/week) (phone) or +32.14583516 (telefax) 				

Synfluid® PAO 2 cSt

Revision Date 2023-05-19

Version 1.17

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information

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

Aspiration hazard, Category 1

H332: Harmful if inhaled. H304: May be fatal if swallowed and enters airways.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms		
Signal Word	: Danger	•
Hazard Statements	: H304	May be fatal if swallowed and enters airways.
	H332	Harmful if inhaled.
Precautionary Statements	: Prevention: P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
	P271	Use only outdoors or in a well-ventilated area.
	Response: P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P304 + P340 +	
	P331 Disposal:	Do NOT induce vomiting.
	P501	Dispose of contents/ container to an approved waste disposal plant.
Hazardous ingredients whicl • 68649-11-6 1-D	h must be listed on t becene, Dimer, Hydro	
Number:100000010948		3/53

Sv	nfluid® PAO 2 cs	St			Sł	AFETY DATA SHEET
-	sion 1.17				Povie	sion Date 2023-05-19
vei	51011 1.17				Revis	SION Date 2023-05-19
2.3	Other hazards Results of PBT and vPr assessment		be ei persi	substance/mixture conta ther persistent, bioaccur istent and very bioaccum gher.	nulative and toxi	c (PBT), or very
	Endocrine disrupting properties	:	cons to R (EU)	substance/mixture does sidered to have endocrine EACH Article 57(f) or Co 2017/2100 or Commiss Is of 0.1% or higher.	e disrupting prop mmission Deleg	erties according ated regulation
SEC	CTION 3: Composition/i	nformatio	n on	ingredients		
-	- 3.2 Istance or Mixture Synonyms	: 	Synfl PAO	cene, Dimer, Hydrogena uid PAO 2 CST 2 MIL alphaolefin	ted	
	Molecular formula	: (UVCI	В		
	Hazardous ingredients	5				
	Chemical name	CAS-N EC-No Index N).	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
	1-Decene, Dimer, Hydrogenated	68649-11 500-228-		Acute Tox. 4; H332 Asp. Tox. 1; H304	100	
	For the full text of the H	-Statemen	ts me	entioned in this Section,	see Section 16.	
SEC	TION 4: First aid meas	ures				
4.1	Description of first-aid	l measure	s			
	General advice	5	shee	e out of dangerous area. t 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	ä	an ur	respiratory tract clear. Inconscious person. If sy victim immediately to he	mptoms persist,	
SDS	S Number:100000010948	3		4/5	53	

٦

Г

Sup		SAFETY DATA SHEET
	fluid® PAO 2 cSt	Revision Date 2023-05-19
4.2 M	-	d effects, both acute and delayed
s	Symptoms	No information available.
	Risks ndication of any immediate r	No information available. nedical attention and special treatment needed
Т	Freatment	No information available.
SECT	ION 5: Firefighting measure	S
F	Flash point	160°C (320°F) Method: Cleveland Open Cup
A	Autoignition temperature	324°C (615°F)
5.1 E	Extinguishing media	
	Jnsuitable extinguishing nedia	High volume water jet.
S	Special hazards arising from Specific hazards during fire ighting	
S	Advice for firefighters Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.
F	Further information	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Fire and explosion protection	Normal measures for preventive fire protection.
	Hazardous decomposition products	Carbon oxides.
SECT	TION 6: Accidental release m	easures
6.1 P	Personal precautions, protect	tive equipment and emergency procedures
P	Personal precautions	Use personal protective equipment. Ensure adequate ventilation.
6.2 E	Environmental precautions	
E	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.
SDS N	Number:100000010948	5/53

			S/	AFETY DATA SHEET
nfluid® PAO 2 cSt				
sion 1.17			Revi	sion Date 2023-05-19
Methods and materials fo Methods for cleaning up	: Soak u binder,	p with inert abso universal binde	orbent material (e.g. sa r, sawdust). Keep in si	
Reference to other sectio	ns			
Reference to other sections				sposal
CTION 7: Handling and stor	age			
Precautions for safe hand Handling	lling			
Advice on safe handling	persona drinking sufficier of rinse	al protection see g should be prof nt air exchange water in accord	e section 8. Smoking, e nibited in the application and/or exhaust in work	eating and n area. Provide c rooms. Dispose
Advice on protection against fire and explosion	: Normal	measures for p	reventive fire protection	n.
Conditions for safe storage	ge, including	any incompati	bilities	
Storage				
Requirements for storage areas and containers	Observ	e label precauti	ons. Electrical installat	ions / working
German storage class	: Combu	stible liquids		
Specific End Use Use	: Synthe	tic Lubricants		
CTION 8: Exposure control	s/personal pi	rotection		
Control parameters				
	e control pa	rameters		
	Osnova	Vrednost	Parametri nadzora	Pripomba
Decene, Dimer, Hydrogenated	SI OEL	MV	5 mg/m3	Alveolarna frakcija Alveolarna frakcija
	0.011		1 20 mg/mo	
altsstoffe	Grundlage	Wert	Zu überwachende	Bemerkung
Decene, Dimer, Hvdrogenated	DE TRGS 900	AGW		Y, Alveolengängige
Y Ein Risiko der Fruchtschäd			<u> </u>	Fraktion schen Grenzwertes (BGW)
			0/50	
5 Number:100000010948			6/53	
	Methods for cleaning up Reference to other section Reference to other sections TION 7: Handling and stor Precautions for safe hand Handling Advice on safe handling Advice on protection against fire and explosion Conditions for safe storage Storage Requirements for storage areas and containers German storage class Specific End Use Use CTION 8: Exposure controls Stavine Decene, Dimer, Hydrogenated Advice on protection altsstoffe Decene, Dimer, Hydrogenated	Sion 1.17 Methods and materials for containmer Methods for cleaning up Soak up binder, contain Reference to other sections Reference to other sections CTION 7: Handling and storage Precautions for safe handling Handling Advice on safe handling Advice on protection against fire and explosion Conditions for safe storage, including Storage Requirements for storage Requirements for storage areas and containers Observ material German storage class Ingredients with workplace controls/personal protection Storage Requirements for storage Use : Synthe CTION 8: Exposure controls/personal protection stavine Osnova Decene, Dimer, Hydrogenated SI OEL altsstoffe Grundlage Decene, Dimer, Hydrogenated DE TRGS 900 Y Ein Risko der Fruchtschädigung braucht bei E	Sion 1.17 Methods and materials for containment and cleaning Methods for cleaning up Soak up with inert abso binder, universal binde containers for disposal Reference to other sections For personal protection considerations see sec CTION 7: Handling and storage Precautions for safe handling Handling Advice on safe handling Avoid formation of aero personal protection see drinking should be prof sufficient air exchange of rinse water in accord regulations. Advice on protection against fire and explosion Normal measures for p Observe label precaution materials must comply German storage class Keep container tightly of Observe label precaution materials must comply German storage class Synthetic Lubricants CTION 8: Exposure controls/personal protection Staine Mit workplace control parameters Ingredients with workplace control parameters Mit workplace Staine Grundlage Wert Lesene. Dimer, Hydrogenated SI OEL Mit vertion Altisetoffe Grundlage Wert Methodity Diet befürchtetz uwerden Advice or protection	Influid@ PAO 2 cSt sion 1.17 Revi Methods and materials for containment and cleaning up Methods for cleaning up Soak up with inert absorbent material (e.g. sa binder, universal binder, sawdust). Keep in si containers for disposal. Reference to other sections For personal protection see section 8. For disconsiderations see section 13. CTION 7: Handling and storage Precautions for safe handling Handling Advice on safe handling Avoid formation of aerosol. Do not breathe vare personal protection see section 8. Smoking, drinking should be prohibited in the application sufficient air exchange and/or exhaust in work of rinse water in accordance with local and naregulations. Advice on protection : Normal measures for preventive fire protection against fire and explosion Conditions for safe storage : Keep container tightly closed in a dry and well Observe label precautions. Storage : Specific End Use : Use : Synthetic Lubricants CTION 8: Exposure controls/personal protection Enditions for stare storage and/or exhange and/or

SDS Number:100000010948

Version 1.17

SAFETY DATA SHEET

Revision Date 2023-05-19

	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
1-Decene, Dimer, Hydrogenated	CH SUVA	MAK-Wert	5 mg/m3	SSc, einatembarer Staub
SSc Eine Schädigung der Leit	pesfrucht braucht bei l	Einhaltung des MAK-We	ertes nicht befürchtet zu werden.	
DNEL	Route Poten Expos	se: Workers s of exposure: In tial health effects ure time: 15 min : 60 mg/m3	: Acute effects	
DNEL	Route Poten Expos	se: Consumers s of exposure: In tial health effects ure time: 15 min 50 mg/m3	: Acute effects	
2 Exposure controls Engineering measures				
Adequate ventilation to co Consider the potential haz activities, and other substa personal protective equipr exposure to harmful levels recommended. The user the equipment since prote	ards of this ma ances in the wo nent. If engine of this materia should read an	terial (see Sectio rk place when de ering controls or I, the personal pr d understand all i	on 2), applicable exposes esigning engineering convork practices are not rotective equipment list instructions and limitat	ure limits, job ontrols and selectin adequate to preve ted below is ions supplied with
Personal protective equ	ipment			
Respiratory protection	maintai normal respirat airborne provide Respira	n minimal oxyger atmospheric pres or may be appro e material may or s protection may	gineering controls are not content of 19.5% by source, a supplied-air N priate. If exposure to hocur, a NIOSH approver be appropriate, such a	volume under IOSH approved narmful levels of ed respirator that
	uncontr known,	ng respirator may olled release, ae	I Mists / P100. A posit be appropriate if there rosolization, exposure tances where air-purify te protection.	ive pressure, air- e is potential for levels are not
Hand protection	: The sui with the the inst which a conside product contact	ng respirator may olled release, ae or other circums t provide adequa tability for a spec producers of the ructions regardin- re provided by the eration the specifi is used, such as time. Gloves sh	 be appropriate if there rosolization, exposure tances where air-purify 	ive pressure, air- e is potential for levels are not ving respirators be discussed ease observe akthrough time s. Also take into er which the prasion, and the replaced if there
Hand protection	 The sui with the the inst which a conside product contact is any in 	ng respirator may olled release, ae or other circums t provide adequa tability for a spec producers of the ructions regardin- ire provided by th eration the specifi is used, such as time. Gloves sh ndication of degra	v be appropriate if there rosolization, exposure tances where air-purify te protection. ific workplace should to protective gloves. Pl g permeability and bre te supplier of the glove c local conditions under the danger of cuts, ab ould be discarded and	ive pressure, air- e is potential for levels are not ving respirators be discussed ease observe akthrough time s. Also take into er which the orasion, and the replaced if there eakthrough.

7/53

y	nfluid® PAO 2 cSt		SAFETY DATA SHE
	sion 1.17		Revision Date 2023-05
			specific work-place. Wear as appropriate:. Protective suit. Safety shoes.
	Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
EC	TION 9: Physical and chemi	cal	properties
1	Information on basic physic	al	and chemical properties
	Appearance		
	Physical state Color Odor Odor Threshold	:	liquid Clear, Colorless Odorless No data available
	Safety data		
	Flash point	:	160°C (320°F) Method: Cleveland Open Cup
	Lower explosion limit	:	Not applicable
	Upper explosion limit	:	Not applicable
	Flammability (solid, gas) Oxidizing properties	:	no
	Autoignition temperature	:	324°C (615°F)
	Molecular formula	:	UVCB
	Molecular weight	:	Varies
	рН	:	Not applicable
	Melting point/freezing point	:	-73°C (-99°F)
	Boiling point/boiling range	:	223°C (433°F)
	Vapor pressure	:	1,00 MMHG at 75°C (167°F)
	Relative density	:	0,8 at 15,6 °C (60,1 °F)
	Density	:	795,7 g/l
	Water solubility	:	Soluble in hydrocarbon solvents; insoluble in water.
	Partition coefficient: n- octanol/water	:	No data available
	Relative vapor density	:	9 (Air = 1.0)
	Evaporation rate	:	No data available

Version 1.17

Revision Date 2023-05-19

SECTION 10: Stability and reacti	vity				
10.1					
Reactivity	: Stable at normal ambient temperature and pressure.				
10.2					
Chemical stability	 This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. 				
10.3					
Possibility of hazardous rea	ctions				
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.				
	Further information: No decomposition if stored and applied as directed.				
10.4 Conditions to avoid	: No data available.				
10.5 Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.				
10.6 Hazardous decomposition products	: Carbon oxides				
Other data	: No decomposition if stored and applied as directed.				
SECTION 11: Toxicological infor	mation				
11.1					
Information on toxicologica	leffects				
Synfluid® PAO 2 cSt Acute oral toxicity	: LD50: >5000 mg/kg Species: Rat Sex: male and female				
Synfluid® PAO 2 cSt Acute inhalation toxicity	: LC50: 1,17 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist				
Synfluid® PAO 2 cSt Acute dermal toxicity	: LD50: > 3 g/kg Species: Rabbit				
SDS Number:100000010948	9/53				

uid® PAO 2 cSt	SAFETY DATA SH
1.17	Revision Date 2023-0
Sex: Not Spec	
nfluid® PAO 2 cSt in irritation : No skin irritation	on
nfluid® PAO 2 cSt e irritation : No eye irritation	งก
nfluid® PAO 2 cSt nsitization : Did not cause	sensitization on laboratory animals.
nfluid® PAO 2 cSt notoxicity in vitro : Remarks: Not	classified, Based on data from similar materials
nfluid® PAO 2 cSt notoxicity in vivo : Remarks: Not	classified, Based on data from similar materials
effect on repro	evelopmental toxicity tests did not reveal any oduction. a from similar materials
	did not show any effects on fetal development. ven is based on data obtained from similar
nfluid® PAO 2 cSt piration toxicity : May be fatal if xicology Assessment	swallowed and enters airways.
5 5	classified due to data which are conclusive ficient for classification.
0 0	classified due to data which are conclusive ficient for classification.
Mutagenicity: Weight of evid cell mutagen. Teratogenicity	ngredient listed as a carcinogen lence does not support classification as a germ
IR effects : Carcinogenicit Contains no ir Mutagenicity: Weight of evid cell mutagen. Teratogenicity	ngredient listed as a carcinogen lence does not support classification as a

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19 Reproductive toxicity:
	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
11.2 Information on other hazards	
	 No data available. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SECTION 12: Ecological information	วท
12.1 Toxicity	
Ecotoxicity effects Toxicity to fish	
1-Decene, Dimer, Hydrogenated	 LL50: > 1.000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to daphnia and other	aquatic invertebrates
1-Decene, Dimer, Hydrogenated	: EL50: > 1.000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to algae	
1-Decene, Dimer, Hydrogenated	: EL50: > 1.000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to daphnia and other	aquatic invertebrates (Chronic toxicity)
1-Decene, Dimer, Hydrogenated	: NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes
SDS Number:100000010948	11/53

	SAFETY DATA SHEE
Synfluid® PAO 2 cSt Version 1.17	Revision Date 2023-05-1
	The product has low solubility in the test medium. An aqueous dispersion was tested.
10.0	dispersion was tested.
12.2 Persistence and degradabili	ty
Biodegradability	: Expected to be inherently biodegradable.
12.3 Bioaccumulative potential Elimination information (persis	tence and degradability)
Bioaccumulation	: No data available
12.4 Mobility in soil	
Mobility	: No data available
12.5 Results of PBT and vPvB as	sassmant
Results of PBT assessment	 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting proper	ties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	
Additional ecological	: No data available
information	No data available
12.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic haz 1-Decene, Dimer, Hydrogenated	ard : This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic ha 1-Decene, Dimer, Hydrogenated	azard : This material is not expected to be harmful to aquatic organisms.
SDS Number:100000010948	12/53

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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

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

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.

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.

SDS Number:100000010948

13/53

Synfluid® PAO 2 cSt

Version 1.17

Revision Date 2023-05-19

OF DANGEROUS GOODS BY INL	RDOUS MATERIAL OR DANGEROUS GOODS FOR
Maritime transport in bulk accord SECTION 15: Regulatory information	ling to IMO instruments
SECTION 15. Regulatory mormation	
15.1 Safety, health and environmental National legislation	regulations/legislation specific for the substance or mixture
	878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of Council on the Registration, Evaluation, Authorisation and
Water hazard class : W (Germany)	/GK 1 slightly water endangering
15.2	
Chemical Safety Assessment	
Components : 1-Decer Hydroge	
	EU_SEVES3 Update: lot applicable
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Philippines PICCS Korea KECI	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Che inventory, or in compliance with the inventory All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is per
Taiwan TCSI China IECSC	 Notification number: KE-09501 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
SDS Number:100000010948	14/53

Version 1.17

Revision Date 2023-05-19

SECTION 16: Other information NFPA Classification : Health Hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0 0 **Further information** Legacy SDS Number : 3331 NSF H1 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. Key or legend to abbreviations and acronyms used in the safety data sheet ACGIH American Conference of LD50 Lethal Dose 50% **Government Industrial Hygienists** AIIC LOAEL Lowest Observed Adverse Effect Australian Inventory of Industrial Chemicals Level DSL Canada, Domestic Substances NFPA National Fire Protection Agency List NDSL Canada, Non-Domestic NIOSH National Institute for Occupational Substances List Safety & Health CNS Central Nervous System NTP National Toxicology Program CAS **Chemical Abstract Service** NZIoC New Zealand Inventory of Chemicals Effective Concentration **EC50** No Observable Adverse Effect NOAEL Level EC50 Effective Concentration 50% NOEC No Observed Effect Concentration EGEST **EOSCA Generic Exposure** OSHA **Occupational Safety & Health** Scenario Tool Administration European Oilfield Specialty EOSCA PEL Permissible Exposure Limit Chemicals Association

on Cancer

Values

European Inventory of Existing

Globally Harmonized System

Inhibition Concentration 50%

International Agency for Research

Inventory of Existing Chemical

Substances in China

Greater Than or Equal To

Germany Maximum Concentration

Chemical Substances

EINECS

MAK

GHS

IARC

IECSC

>= IC50 Philippines Inventory of

Short-term Exposure Limit

Superfund Amendments and

Presumed Not Toxic

Reauthorization Act.

Threshold Limit Value

Time Weighted Average

Act

Commercial Chemical Substances

Resource Conservation Recovery

PICCS

PRNT

RCRA

STEL

SARA

TLV

TWA

^{15/53}

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and 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.
H332	Harmful if inhaled.

SDS Number:100000010948

Version 1.17

Revision Date 2023-05-19

Annex

1. Short title of Exposure Scenario: Ma	anufacture
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	 preparations at industrial sites SU8, SU9, SU3: Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
Process category	 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 PROC8a: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
	PROC15: Use as laboratory reagent
Environmental release category	: ERC1, ERC4: Manufacture of substances, Industrial use of processing aids in processes and products, not becoming par of articles
-	Iling environmental exposure for:ERC1, ERC4: Istrial use of processing aids in processes and articles
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced	Istrial use of processing aids in processes and articles by risk management
Manufacture of substances, Indu products, not becoming part of a	istrial use of processing aids in processes and articles
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks	Istrial use of processing aids in processes and articles by risk management Not applicable
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks	Istrial use of processing aids in processes and articles by risk management Not applicable
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Fechnical conditions and measures Remarks	 Istrial use of processing aids in processes and articles by risk management Not applicable / Organizational measures A quantitative risk assessment is not required for the environment. Iling worker exposure for: PROC1, PROC2, PROC3,
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Fechnical conditions and measures Remarks 2.2 Contributing scenario contro PROC4, PROC8a, PROC8b, PRO Jse in closed, continuous proce patch process (synthesis or form	 Istrial use of processing aids in processes and articles by risk management Not applicable / Organizational measures A quantitative risk assessment is not required for the environment. Iling worker exposure for: PROC1, PROC2, PROC3, C15: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in closed mulation), Use in batch and other process (synthesis)
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Technical conditions and measures Remarks 2.2 Contributing scenario contro PROC4, PROC8a, PROC8b, PRO Use in closed, continuous proce patch process (synthesis or form where opportunity for exposure (charging/discharging) from/to v	Instrial use of processing aids in processes and articles by risk management : Not applicable / Organizational measures : A quantitative risk assessment is not required for the environment. Illing worker exposure for: PROC1, PROC2, PROC3, C15: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in closed
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Technical conditions and measures Remarks 2.2 Contributing scenario contro PROC4, PROC8a, PROC8b, PRO Use in closed, continuous proce patch process (synthesis or form where opportunity for exposure (charging/discharging) from/to v Transfer of substance or prepara	Istrial use of processing aids in processes and articles by risk management : Not applicable / Organizational measures : A quantitative risk assessment is not required for the environment. Illing worker exposure for: PROC1, PROC2, PROC3, C15: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in closed nulation), Use in batch and other process (synthesis) arises, Transfer of substance or preparation essels/large containers at non-dedicated facilities, ation (charging/ discharging) from/ to vessels/ large
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Technical conditions and measures Remarks 2.2 Contributing scenario contro PROC4, PROC8a, PROC8b, PRO Use in closed, continuous proce patch process (synthesis or form where opportunity for exposure (charging/discharging) from/to v Transfer of substance or prepara containers at dedicated facilities	Istrial use of processing aids in processes and articles by risk management : Not applicable / Organizational measures : A quantitative risk assessment is not required for the environment. Illing worker exposure for: PROC1, PROC2, PROC3, C15: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in closed nulation), Use in batch and other process (synthesis) arises, Transfer of substance or preparation essels/large containers at non-dedicated facilities, ation (charging/ discharging) from/ to vessels/ large
Manufacture of substances, Indu products, not becoming part of a Environment factors not influenced Remarks Technical conditions and measures Remarks 2.2 Contributing scenario contro PROC4, PROC8a, PROC8b, PRO Use in closed, continuous proce batch process (synthesis or form where opportunity for exposure (charging/discharging) from/to v	Istrial use of processing aids in processes and articles by risk management : Not applicable / Organizational measures : A quantitative risk assessment is not required for the environment. Illing worker exposure for: PROC1, PROC2, PROC3, C15: Use in closed process, no likelihood of exposure, ss with occasional controlled exposure, Use in closed nulation), Use in batch and other process (synthesis) arises, Transfer of substance or preparation essels/large containers at non-dedicated facilities, ation (charging/ discharging) from/ to vessels/ large

Version 1.17

Revision Date 2023-05-19

SAFETY DATA SHEET

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: **Distribution**

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 PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/
	discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC15: Use as laboratory reagent
Environmental release category :	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Manufacture of substances, Formulation of preparations, Formulation in materials, Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems
ERC4, ERC5, ERC6a, ERC6b, ERC6 Formulation of preparations, Form in processes and products, not be	ng environmental exposure for:ERC1, ERC2, ERC3, 5c, ERC6d, ERC7: Manufacture of substances, ulation in materials, Industrial use of processing aids coming part of articles, Industrial use resulting in ustrial use resulting in manufacture of another
SDS Number:100000010948	18/53

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
use of monomers for manufactur), Industrial use of reactive processing aids, Industrial re of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, losed systems
Environment factors not influenced Remarks	by risk management : Not applicable
Technical conditions and measures Remarks	 / Organizational measures A quantitative risk assessment is not required for the environment.
PROC4, PROC8a, PROC8b, PROC exposure, Use in closed, continu- in closed batch process (synthes (synthesis) where opportunity fo (charging/discharging) from/to ver- Transfer of substance or prepara containers at dedicated facilities	Iling worker exposure for: PROC1, PROC2, PROC3, C9, PROC15: Use in closed process, no likelihood of ious process with occasional controlled exposure, Use sis or formulation), Use in batch and other process or exposure arises, Transfer of substance or preparation essels/large containers at non-dedicated facilities, ation (charging/ discharging) from/ to vessels/ large , Transfer of substance or preparation into small , including weighing), Use as laboratory reagent
Amount used Remarks	: Not applicable
Organizational measures to prevent Do not ingest. If swallowed then seek	/limit releases, dispersion and exposure immediate medical assistance.
3. Exposure estimation and refer	rence to its source
Remarks: Not applicable	
4. Guidance to Downstream User by the Exposure Scenario	r to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Us	e as an intermediate
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	 preparations at industrial sites SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of bulk, large scale chemicals (including petroleum products),
Process category	 Manufacture of fine chemicals PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional
SDS Number:100000010948	19/53

Synfluid® PAO 2 cSt	SAFETY DATA SHEET
Version 1.17	Revision Date 2023-05-19
	controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent
Environmental release category :	ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)
2.1 Contributing scenario controllin resulting in manufacture of anothe	ng environmental exposure for:ERC6a: Industrial use r substance (use of intermediates)
Environment factors not influenced by Remarks :	r isk management Not applicable
Technical conditions and measures / C Remarks :	Drganizational measures A quantitative risk assessment is not required for the environment.
PROC4, PROC8a, PROC8b, PROC1 Use in closed, continuous process batch process (synthesis or formul where opportunity for exposure ari (charging/discharging) from/to ves	ng worker exposure for: PROC1, PROC2, PROC3, 5: Use in closed process, no likelihood of exposure, with occasional controlled exposure, Use in closed lation), Use in batch and other process (synthesis) ses, Transfer of substance or preparation sels/large containers at non-dedicated facilities, on (charging/ discharging) from/ to vessels/ large Ise as laboratory reagent
Amount used Remarks :	Not applicable
Organizational measures to prevent /li Do not ingest. If swallowed then seek in	
3. Exposure estimation and referen	nce to its source
Remarks: Not applicable	
SDS Number:100000010948	20/53

Version 1.17

Revision Date 2023-05-19

Not applicable 1. Short title of Exposure Scenario: Fo l	rmulation
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
Sector of use	 preparations at industrial sites SU3, SU 10: Industrial Manufacturing (all), Formulation [mixing] of preparations and/ or re-packaging (excluding
Process category	 alloys) 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)
	formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/
	 discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent
Environmental release category	: ERC2: Formulation of preparations
other process (synthesis) where	ling worker exposure for: PROC4: Use in batch and opportunity for exposure arises Substance is a unique structure.
other process (synthesis) where a	opportunity for exposure arises
other process (synthesis) where Product characteristics Remarks Remarks	opportunity for exposure arises Substance is a unique structure.
Product characteristics Remarks Remarks Amount used Remarks	 opportunity for exposure arises Substance is a unique structure. : Liquid, vapour pressure < 0.5 kPa at STP
other process (synthesis) where a Product characteristics Remarks Remarks Amount used Remarks Frequency and duration of use Remarks	opportunity for exposure arises Substance is a unique structure. : Liquid, vapour pressure < 0.5 kPa at STP
other process (synthesis) where a Product characteristics Remarks Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affectin Remarks	opportunity for exposure arises Substance is a unique structure. : Liquid, vapour pressure < 0.5 kPa at STP

Synfluid® PAO 2 cSt

Version 1.17

Revision Date 2023-05-19

wear suitable gloves tested to EN	d to personal protection, hygiene and health evaluation N374., Wear suitable coveralls to prevent exposure to the skin.
	ntrolling worker exposure for: PROC5: Mixing or blending in ion of preparations and articles (multistage and/ or
Product characteristics Remarks	Substance is a unique structure.
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	 ecting 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 measu Provide extraction ventilation at p	
	vent /limit releases, dispersion and exposure seek immediate medical assistance.
	d to personal protection, hygiene and health evaluation N374., Wear suitable coveralls to prevent exposure to the skin.
•	ntrolling environmental exposure for:ERC2: Formulation of
preparations	
preparations Product characteristics Remarks	Substance is a unique structure.
Product characteristics	 Substance is a unique structure. 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.
Product characteristics Remarks Frequency and duration of use	: 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.
Product characteristics Remarks Frequency and duration of use Continuous exposure Environment factors not influence	 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. ced by risk management Not applicable

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

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

: Not applicable

Substance is a unique structure.

: Liquid, vapour pressure < 0.5 kPa at STP

Product characteristics

Remarks

Remarks

Amount used

Remarks

Frequency and duration of use Remarks

differently)

Other operational conditions affecting workers exposure Remarks : Assumes use at no

Remains

 Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

: Covers daily exposures up to 8 hours (unless stated

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

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, long-term – systemic	5 mg/m3	0,9
			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
CS16: Gener CS55: Batch	al exposures (ope	• • •	hesis) where opportu	inity for exposure	arises
PROC5: Mixi	ng or blending in l	batch processes	s for formulation of p	reparations and a	articles (multistage
SDS Number:10	0000010948		23/5	53	

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

and/ or significant contact) CS30: Mixing operations (open systems)

Remarks: Not applicable

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 – industrial

Main User Groups	SU 3: Industrial uses: Uses of substances as such or in
Sector of upo	preparations at industrial sites
Sector of use	SU3: Industrial Manufacturing (all)
Process category	PROC1: Use in closed process, no likelihood of exposure
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC3: Use in closed batch process (synthesis or
	formulation) PROC4: Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC5: Mixing or blending in batch processes for formulation
	of preparations and articles (multistage and/ or significant
	contact)
	PROC7: Industrial spraying
	PROC8a: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at
	non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/
	discharging) from/ to vessels/ large containers at dedicated
	facilities
	PROC9: Transfer of substance or preparation into small
	containers (dedicated filling line, including weighing)
	PROC10: Roller application or brushing
	PROC13: Treatment of articles by dipping and pouring
	PROC14: Production of preparations or articles by tabletting,
	compression, extrusion, pelletization
	PROC15: Use as laboratory reagent
Environmental release category	ERC4: Industrial use of processing aids in processes and
0, 1	products, not becoming part of articles
	ing environmental exposure for:ERC4: Industrial use of
processing aids in processes and	products, not becoming part of articles
Environment factors not influenced b	
Remarks	: Not applicable
Technical conditions and measures /	Organizational measures
	: A quantitative risk assessment is not required for the
SDS Number:100000010948	24/53

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

environment.

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Mixing or blending in batch processes for formulation of 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 facilities, Transfer of substance or preparation or brushing, Treatment of articles by dipping and pouring, Production of preparations or articles by tabletting, compression, extrusion, 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 aff Remarks	 fecting 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.
	vent /limit releases, dispersion and exposure seek immediate medical assistance.
2.2 Contributing scenario co	ntrolling 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 aff Remarks	fecting 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.
	u res closure of the operation or equipment and provide extract ventilation at ndertaken outdoors., Provide a good standard of general ventilation
SDS Number:100000010948	25/53

Synfluid® PAO 2 cSt

Version 1.17

Revision Date 2023-05-19

(not less than 3 to 5 air changes per hour)

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 chemically resistant gloves (tested to EN374) in combination with 'basic' employee training., Wear a full face respirator conforming to EN140 with Type A filter or better.

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, CS97	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,2
	Modified		Worker – dermal, long- term – systemic	2,143 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,20
PROC7, CS34, CS10	ECETOC TRA Modified		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: Indu CS34: Manua CS10: Sprayi 4. Guidance t by the Expos When the r are observ characteris Confirm tha	o Downstream ure Scenario recommended risk ed, exposures are sation ratios are ex at RMMs and OCs Exposure Scenari roups	User to evalue comanagement r e not expected to kpected to be le s are as describ o: Use in coat : SU 22 educa : SU 22 educa	measures (RMMs) and o exceed the predict ss than 1 ed or of equivalent e :ings – professior : Professional uses: tion, entertainment, s : Professional uses: tion, entertainment, s : 1: Use in closed pro	nd operational co ed DNELs and th fficiency. nal Public domain (a services, craftsmo Public domain (a services, craftsmo	nditions (OCs) e resulting risk dministration, en) dministration, en)
	2~.1	PROC contro	2: Use in closed, co lled exposure 3: Use in closed bat	ntinuous process	with occasional
SDS Number:10	0000010948		26/5	53	

Synfluid® PAO 2 cSt	SAFETY DATA SHEET
Version 1.17	Revision Date 2023-05-19
	 PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available
Environmental release category :	ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
of processing aids in open system Environment factors not influenced by Remarks Technical conditions and measures / 0	risk management Not applicable
PROC4, PROC5, PROC8a, PROC8b process, no likelihood of exposure controlled exposure, Use in closed batch and other process (synthesis blending in batch processes for for 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	ng worker exposure for: PROC1, PROC2, PROC3, b, PROC10, PROC13, PROC15, PROC19: Use in closed b, Use in closed, continuous process with occasional l 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) c non-dedicated facilities, Transfer of substance or b) from/ to vessels/ large containers at dedicated shing, Treatment of articles by dipping and pouring, nixing with intimate contact and only PPE available
Amount used Remarks :	Not applicable
SDS Number:100000010948	27/53

Synfluid®	PAO 2 cSt			SAF	ETY DATA SHEET
Version 1.17				Revisi	on Date 2023-05-19
F requency and Remarks	duration of use		rs daily exposures up ently)	o to 8 hours (unle	ss stated
Other operatior Remarks	nal conditions af	: Assur tempe	rs exposure mes use at not more erature, unless stated ard of occupational h	d differently., Ass	umes a good basic
			eases, dispersion a te medical assistanc		
2.2 Contributi spraying	ng scenario co	ontrolling wo	rker exposure for:	PROC11: Non	industrial
Product charac Remarks	teristics	: Liquic	l, vapour pressure <	0.5 kPa at STP	
Amount used Remarks		: Not a	pplicable		
Frequency and Remarks	duration of use		rs daily exposures up ently)	o to 8 hours (unle	ss stated
Other operation Remarks	nal conditions af	: Assur tempe	rs exposure mes use at not more erature, unless stated ard of occupational h	d differently., Ass	umes a good basic
Provide extrac		points where e	emissions occur., Pro r hour), Ensure opera		
Do not ingest.		i seek immedia	eases, dispersion a te medical assistanc		out activities
	I measures relate gloves tested to E	•	l protection, hygien	e and health eva	aluation
3. Exposure e	estimation and	reference to	its source		
	umers				
Workers/Consu		0 "	Value type	Level of Exposure	Risk characterization
Workers/Const Contributing Scenario	Exposure Assessment Method	Specific conditions			ratio (PEC/PNEC):
Contributing Scenario PROC11, CS34,	Exposure Assessment Method ECETOC TRA		Worker – inhalation,	2,8 mg/m3	ratio (PEC/PNEC): 0,5
Contributing Scenario	Exposure Assessment Method	conditions	long-term – systemic Worker – dermal, long-	2,8 mg/m3 0,4286 mg/kg/d	
Contributing Scenario PROC11, CS34,	Exposure Assessment Method ECETOC TRA	conditions	long-term – systemic	_	0,5

28/53

SDS Number:100000010948

SAFETY DATA SHEET Synfluid[®] PAO 2 cSt Version 1.17 Revision Date 2023-05-19 Worker - dermal, long-21,428 mg/kg/d 0,2 term – systemic Worker - long-term -0,46 systemic Combined routes Not applicable Remarks: PROC11: Non industrial spraying CS34: Manual CS10: Spraying PROC11: Non industrial spraying CS34: Manual CS10: Spraying 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 : **SU 21:** Consumer uses: Private households (= general public Main User Groups = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC1: Adhesives, sealants PC4: Anti-Freeze and de-icing products PC8: Biocidal products (e.g. Disinfectants, pest control) PC9a: Coatings and paints, thinners, paint removers PC9b: Fillers, putties, plasters, modelling clay PC9c: Finger paints PC15: Non-metal-surface treatment products PC18: Ink and toners PC23: Leather tanning, dye, finishing, impregnation and care products PC24: Lubricants, greases, release products PC31: Polishes and wax blends **PC34:** Textile dyes, finishing and impregnating products; including bleaches and other processing aids Environmental release category : ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems Environment factors not influenced by risk management Remarks Not applicable SDS Number:100000010948 29/53

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
Technical conditions and measures / C Remarks :	Organizational measures A quantitative risk assessment is not required for the environment.
PC9b, PC15, PC18, PC23, PC24, PC icing products, Biocidal products (thinners, paint removers, Fillers, pu treatment products, Ink and toners care products, Lubricants, greases	ng consumer exposure for: PC1, PC4, PC8, PC9a, 31, PC34: Adhesives, sealants, Anti-Freeze and de- e.g. Disinfectants, pest control), Coatings and paints, utties, plasters, modelling clay, Non-metal-surface , Leather tanning, dye, finishing, impregnation and , release products, Polishes and wax blends, Textile roducts; including bleaches and other processing
Amount used Remarks :	Not applicable
3. Exposure estimation and referen	ce to its source
by the Exposure Scenario	o evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Lubr i	icants - 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
SDS Number:100000010948	30/53

Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
	containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions
Environmental release category	: ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems
	lling environmental exposure for:ERC4, ERC7: Industrial ses and products, not becoming part of articles, losed systems
Technical conditions and measures Remarks	 / Organizational measures : A quantitative risk assessment is not required for the environment.
2.2 Contributing scenario control	ling worker exposure for: PROC1, PROC2, PROC3
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where or preparation (charging/discharg facilities, Transfer of substance of large containers at dedicated facilities, containers (dedicated filling line,	lling worker exposure for: PROC1, PROC2, PROC3, C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing, and pouring, Lubrication at high energy conditions and
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where or preparation (charging/discharge facilities, Transfer of substance of large containers at dedicated faci containers (dedicated filling line, Treatment of articles by dipping a	C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing,
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where or preparation (charging/discharge facilities, Transfer of substance of large containers at dedicated faci containers (dedicated filling line, Treatment of articles by dipping a in partly open process Product characteristics	C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing, and pouring, Lubrication at high energy conditions and
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where or preparation (charging/discharg facilities, Transfer of substance of large containers at dedicated faci containers (dedicated filling line, Treatment of articles by dipping a in partly open process Product characteristics Remarks Amount used	C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing, and pouring, Lubrication at high energy conditions and
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where of or preparation (charging/discharge facilities, Transfer of substance of large containers at dedicated facilities, Treatment of articles by dipping a in partly open process Product characteristics Remarks Amount used Remarks Frequency and duration of use	 C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing, and pouring, Lubrication at high energy conditions and : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable : Covers daily exposures up to 8 hours (unless stated differently)
PROC4, PROC8a, PROC8b, PROC no likelihood of exposure, Use in exposure, Use in closed batch prother process (synthesis) where of or preparation (charging/discharge facilities, Transfer of substance of large containers at dedicated facilic containers (dedicated filling line, Treatment of articles by dipping a in partly open process Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affecting Remarks	 C9, PROC10, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Transfer of substance ging) from/to vessels/large containers at non-dedicated or preparation (charging/ discharging) from/ to vessels/ ilities, Transfer of substance or preparation into small including weighing), Roller application or brushing, and pouring, Lubrication at high energy conditions and : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable : Covers daily exposures up to 8 hours (unless stated differently) ng 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. //imit releases, dispersion and exposure

SAFETY DATA SHEET

Version 1.17	Revision Date 2023-05-1
2.2 Contributing scenario cont	rolling 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 affeo Remarks	 cting 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.
Technical conditions and measure Minimize exposure by partial enclo openings.	es osure of the operation or equipment and provide extract ventilation at
	ent /limit releases, dispersion and exposure eek immediate medical assistance., Automate activity where possible
	to personal protection, hygiene and health evaluation 374., Wear suitable coveralls to prevent exposure to the skin.
2.2 Contributing scenario cont energy conditions	rolling worker exposure for: PROC18: Greasing at high
•	
energy conditions Product characteristics Remarks Amount used	: Liquid, vapour pressure < 0.5 kPa at STP
energy conditions Product characteristics Remarks Amount used Remarks	
energy conditions Product characteristics Remarks Amount used	: Liquid, vapour pressure < 0.5 kPa at STP
energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use	 Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently)
energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affec Remarks Technical conditions and measure	 Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently) cting 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. es ment., Minimize exposure by partial enclosure of the operation or
energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affec Remarks Technical conditions and measure Restrict area of openings to equipr equipment and provide extract ven	 Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently) Cting 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. es ment., Minimize exposure by partial enclosure of the operation or ntillation at openings. ent /limit releases, dispersion and exposure
energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affec Remarks Technical conditions and measure Restrict area of openings to equipr equipment and provide extract ven Organizational measures to preve Do not ingest. If swallowed then se	 Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently) cting 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. es ment., Minimize exposure by partial enclosure of the operation or tillation at openings. ent /limit releases, dispersion and exposure bek immediate medical assistance. to personal protection, hygiene and health evaluation
energy conditions Product characteristics Remarks Amount used Remarks Frequency and duration of use Remarks Other operational conditions affed Remarks Technical conditions and measure Restrict area of openings to equipr equipment and provide extract ven Organizational measures to preve Do not ingest. If swallowed then se Conditions and measures related	 Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently) cting 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. es ment., Minimize exposure by partial enclosure of the operation or titlation at openings. ent /limit releases, dispersion and exposure beek immediate medical assistance. to personal protection, hygiene and health evaluation 374.

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-05-19

Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC7, CS10	ECETOC TRA Modified		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 Modified		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
CS10: Sprayi PROC18: Gro	easing at high ene		y open equipment		
4. Guidance t by the Expos		User to evalu	late whether he w	orks inside the	e boundaries set
are observ characteris Confirm tha	ed, exposures are ation ratios are ex	e not expected t xpected to be le s are as describ	ed or of equivalent e	ed DNELs and th	
Main User Gı	roups	: SU 22	: Professional uses:	Public domain (a	dministration,
Sector of use)		tion, entertainment, a Professional uses:		
Process cate	gory	: PROC PROC contro PROC formul PROC opport PROC (charg non-du PROC discha facilitie PROC contai PROC PROC	 24: Use in batch and tunity for exposure a 38: Transfer of subsiging/discharging) from edicated facilities 38: Transfer of subsiging) from/ to vesse arging) from/ to vesse 39: Transfer of substances (dedicated filling 10: Roller application 11: Non industrial space s	cess, no likelihoo ntinuous process ch process (synth other process (synth stance or prepara n/to vessels/large stance or prepara els/ large containe ance or preparation g line, including w n or brushing praying	od of exposure with occasional nesis or ynthesis) where tion e containers at tion (charging/ ers at dedicated on into small veighing)
SDS Number:10	0000010049	PROC	:13: Treatment of art		
SDS Number. I	0000010946		33/3	00	

Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
	 PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
Environmental release category	y : ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
ERC9a, ERC9b: Wide dispersive outdoor use of pr	entrolling environmental exposure for:ERC8a, ERC8d, sive indoor use of processing aids in open systems, Wide rocessing aids in open systems, Wide dispersive indoor use tems, Wide dispersive outdoor use of substances in closed
Environment factors not influer Remarks	nced by risk management : Not applicable
Technical conditions and meas Remarks	 ures / Organizational measures A quantitative risk assessment is not required for the environment.
2.2 Contributing cooncrises	ntrolling worker experies for PROC1_PROC2_PROC2
PROC4, PROC8a, PROC8b, I process, no likelihood of exp controlled exposure, Use in batch and other process (sy substance or preparation (cl non-dedicated facilities, Trai from/ to vessels/ large conta preparation into small conta application or brushing, Nor pouring, Heat and pressure to	entrolling worker exposure for: PROC1, PROC2, PROC3, PROC9, PROC10, PROC11, PROC13, PROC20: Use in closed bosure, Use in closed, continuous process with occasional closed batch process (synthesis or formulation), Use in nthesis) where opportunity for exposure arises, Transfer of harging/discharging) from/to vessels/large containers at nsfer of substance or preparation (charging/ discharging) iners at dedicated facilities, Transfer of substance or iners (dedicated filling line, including weighing), Roller industrial spraying, Treatment of articles by dipping and transfer fluids in dispersive, professional use but closed
PROC4, PROC8a, PROC8b, I process, no likelihood of exp controlled exposure, Use in batch and other process (sy substance or preparation (cl non-dedicated facilities, Tran from/ to vessels/ large conta preparation into small conta application or brushing, Non pouring, Heat and pressure to systems	PROC9, PROC10, PROC11, PROC13, PROC20: Use in closed bosure, Use in closed, continuous process with occasional closed batch process (synthesis or formulation), Use in nthesis) where opportunity for exposure arises, Transfer of harging/discharging) from/to vessels/large containers at hsfer of substance or preparation (charging/ discharging) iners at dedicated facilities, Transfer of substance or iners (dedicated filling line, including weighing), Roller industrial spraying, Treatment of articles by dipping and
PROC4, PROC8a, PROC8b, I process, no likelihood of exp controlled exposure, Use in batch and other process (sy substance or preparation (cf non-dedicated facilities, Trai from/ to vessels/ large conta preparation into small conta application or brushing, Nor pouring, Heat and pressure to systems	PROC9, PROC10, PROC11, PROC13, PROC20: Use in closed bosure, Use in closed, continuous process with occasional closed batch process (synthesis or formulation), Use in inthesis) where opportunity for exposure arises, Transfer of harging/discharging) from/to vessels/large containers at insfer of substance or preparation (charging/ discharging) iners at dedicated facilities, Transfer of substance or iners (dedicated facilities, including weighing), Roller industrial spraying, Treatment of articles by dipping and transfer fluids in dispersive, professional use but closed
PROC4, PROC8a, PROC8b, I process, no likelihood of exp controlled exposure, Use in batch and other process (sy substance or preparation (ch non-dedicated facilities, Tran from/ to vessels/ large conta preparation into small conta application or brushing, Non pouring, Heat and pressure to systems Product characteristics Remarks Amount used Remarks	PROC9, PROC10, PROC11, PROC13, PROC20: Use in closed bosure, Use in closed, continuous process with occasional closed batch process (synthesis or formulation), Use in inthesis) where opportunity for exposure arises, Transfer of harging/discharging) from/to vessels/large containers at hisfer of substance or preparation (charging/ discharging) iners at dedicated facilities, Transfer of substance or iners (dedicated filling line, including weighing), Roller industrial spraying, Treatment of articles by dipping and transfer fluids in dispersive, professional use but closed : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable
PROC4, PROC8a, PROC8b, I process, no likelihood of exp controlled exposure, Use in batch and other process (sy substance or preparation (cl non-dedicated facilities, Tran from/ to vessels/ large conta preparation into small conta application or brushing, Non pouring, Heat and pressure to systems Product characteristics Remarks Amount used Remarks Frequency and duration of use	 PROC9, PROC10, PROC11, PROC13, PROC20: Use in closed bosure, Use in closed, continuous process with occasional closed batch process (synthesis or formulation), Use in inthesis) where opportunity for exposure arises, Transfer of narging/discharging) from/to vessels/large containers at nsfer of substance or preparation (charging/ discharging) iners at dedicated facilities, Transfer of substance or iners (dedicated filling line, including weighing), Roller industrial spraying, Treatment of articles by dipping and transfer fluids in dispersive, professional use but closed Liquid, vapour pressure < 0.5 kPa at STP Not applicable Covers daily exposures up to 8 hours (unless stated differently)

Synfluid® PAO 2 cSt

Version 1.17

Revision Date 2023-05-19

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: PROC17, PROC18: Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions

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 workers exposure					
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 Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.					
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.

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):
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 TI Modified	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,90
			Worker – dermal, long- term – systemic	1,3715 mg/kg/d	0,0
			Worker – long-term – systemic Combined routes		0,91
,	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,9
			Worker - dermal, long-	0,6855 mg/kg/d	0,0
SDS Number:100000010948		35/5	53		

Synfluid® PAO 2 cSt								
Version 1.17	1	torm avetomia	Revisio	011 Date 2023-05-19				
		term – systemic Worker – long-term – systemic Combined routes		0,90				
Remarks: Not applicable PROC17: Lubrication at high energy conditions and in partly open process CS17: Operation and lubrication of high energy open equipment PROC17: Lubrication at high energy conditions and in partly open process								
CS17: Operation and lubrication of high energy open equipment PROC18: Greasing at high energy conditions CS17: Operation and lubrication of high energy open equipment								
4. Guidance to Downstream by the Exposure Scenario	User to evalua	te whether he w	orks inside the	e boundaries set				
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 - Consumer								
Main User Groups		Consumer uses: P	rivate households	s (= general public				
Sector of use	: SU 21:	 = consumers) : SU 21: Consumer uses: Private households (= general public 						
Product category	: PC1: A PC24: l	 = consumers) PC1: Adhesives, sealants PC24: Lubricants, greases, release products PC31: Polishes and wax blends 						
Environmental release category	of proce use of p indoor u	: ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems						
2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems								
Product characteristics								
Technical conditions and measures / Organizational measures Remarks : A quantitative risk assessment is not required for the environment.								
SDS Number:100000010948		36/5	53					

SAFETY DATA SHEET

Version 1.17

2.2 Contributing scenario contr sealants, Polishes and wax ble	rolling consumer exposure for: PC1, PC31: Adhesives, nds
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Frequency and duration of use Remarks	: Unless otherwise stated, covers use frequency up to 0.02
Remains	times per day., covers exposure up to 0.2 hours per event.
Other given operational conditions	
Remarks	: Unless otherwise stated assumes use at ambient temperatures, assumes use in a 20 cubic meter room, Assumes use with typical ventilation.
Conditions and measures related t protection and hygiene)	to protection of consumer (e.g. behavioral advice, personal
Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
2.2 Contributing scenario contr greases, release products	olling consumer exposure for: PC24: Lubricants,
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Frequency and duration of use Remarks	: Unless otherwise stated, covers use frequency up to 0.02 times per day., covers exposure up to 0.2 hours per event.
Other given operational conditions Remarks	 affecting consumers exposure Unless otherwise stated assumes use at ambient temperatures, assumes use in a 20 cubic meter room, Assumes use with typical ventilation.
Remarks	: Unless otherwise stated, covers concentrations up to 50%, covers use up to 6 days/year, covers use up to 1 time/on day of use;, covers skin contact area up to 428.75 cm2, covers use amounts up to 73g, assumes use in a 20 cubic meter room, for each use event, covers exposure up to 0.17hr/event
Conditions and measures related t protection and hygiene)	to protection of consumer (e.g. behavioral advice, personal
Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
3. Exposure estimation and refe	erence to its source
Workers/Consumers	
SDS Number:100000010948	37/53

SAFETY DATA SHEET

Version 1.17				17641910	on Date 2023-05-1
Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PC24	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	7500 mg/m3	0,00
			Worker – dermal, long- term – systemic	721 mg/kg/d	0,07
			Worker – long-term – systemic Combined routes		0,00
Remarks: PC24: Lubrica	Not applicable ants, greases, rele	ease products			
	o Downstream ure Scenario	User to evalu	uate whether he w	orks inside the	e boundaries se
Confirm the	Exposure Scenario oups	are as describ b: Metal work : SU 3: prepa	bed or of equivalent e sing fluids / rolling Industrial uses: Use Industrial sindustrial s Industrial Manufactu	oils - Industri s of substances a ites	
Process cate		PROC contro PROC oppor PROC of pre conta PROC (charg non-d PROC discha faciliti PROC conta PROC discha faciliti PROC open	C9: Transfer of subst iners (dedicated fillin C10: Roller applicatio C13: Treatment of an C17: Lubrication at hi process	ntinuous process cch process (synth other process (synth rises g in batch process s (multistage and g stance or prepara n/to vessels/large stance or prepara els/ large containe ance or preparati g line, including v in or brushing cicles by dipping a gh energy condit	with occasional hesis or ynthesis) where ses for formulation / or significant tion e containers at tion (charging/ ers at dedicated on into small veighing) and pouring ions and in partly
Environmenta	al release category		I: Industrial use of protects, not becoming particles		processes and
			vironmental expos cts, not becoming		

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt Version 1.17	Revision Date 2023-05-19
Environment factors not influenced b 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, PROC8a, PROC8 no likelihood of exposure, Use in exposure, Use in closed batch pro other process (synthesis) where of batch processes for formulation of significant contact), Transfer of su vessels/large containers at non-de (charging/ discharging) from/ to ve of substance or preparation into s	ing worker exposure for: PROC1, PROC2, PROC3, b, PROC9, PROC13, PROC17: Use in closed process, closed, continuous process with occasional controlled ocess (synthesis or formulation), Use in batch and opportunity for exposure arises, Mixing or blending in of preparations and articles (multistage and/ or ubstance or preparation (charging/discharging) from/to edicated facilities, Transfer of substance or preparation essels/ large containers at dedicated facilities, Transfer small containers (dedicated filling line, including y dipping and pouring, Lubrication at high energy cess
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	 g 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.
Organizational measures to prevent / Do not ingest. If swallowed then seek i	limit releases, dispersion and exposure mmediate medical assistance.
Do not ingest. If swallowed then seek i	
Do not ingest. If swallowed then seek i 2.2 Contributing scenario controll Product characteristics	mmediate medical assistance.
Do not ingest. If swallowed then seek i 2.2 Contributing scenario controll Product characteristics Remarks Amount used	ing worker exposure for: PROC7: Industrial spraying
Do not ingest. If swallowed then seek i 2.2 Contributing scenario controll Product characteristics Remarks Amount used Remarks	ing worker exposure for: PROC7: Industrial spraying : Liquid, vapour pressure < 0.5 kPa at STP
Do not ingest. If swallowed then seek i 2.2 Contributing scenario controll Product characteristics Remarks Amount used Remarks Frequency and duration of use	 ing worker exposure for: PROC7: Industrial spraying : Liquid, vapour pressure < 0.5 kPa at STP : Not applicable : Covers daily exposures up to 8 hours (unless stated differently)

SAFETY DATA SHEET

Synfluid® PAO 2 cSt

Version 1.17

Revision Date 2023-05-19

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

Technical conditions and measures

Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

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), coverall and eye protection., Wear a respirator conforming to EN140 with Type A filter or better.

2.2 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Product characteristics Remarks :	Liquid, vapour pressure < 0.5 kPa at STP			
Amount used				
Remarks :	Not applicable			
Frequency and duration of use				
	Covers daily exposures up to 8 hours (unless stated differently)			
Other operational conditions affecting	workers exposure			
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 Provide a good standard of general or c	ontrolled ventilation (10 to 15 air changes per hour)			
Organizational measures to prevent /limit releases, dispersion and exposure Do not ingest. If swallowed then seek immediate medical assistance.				
Conditions and measures related to per Wear suitable gloves tested to EN374.	ersonal protection, hygiene and health evaluation			

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 Modified		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
PROC10, CS13	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1,5 mg/m3	0,3
SDS Number:10	0000010948		40/5	53	

Synfluid® BAO 2 oSt			SAF	ETY DATA SHEET
Synfluid® PAO 2 cSt Version 1.17			Revisio	on Date 2023-05-19
		Worker – dermal, long-	27,43 mg/kg/d	0,3
		term – systemic Worker – long-term – systemic Combined routes		0,54
Remarks: Not applicable PROC7: Industrial spraying CS10: Spraying	L	Tottes		
PROC10: Roller application or CS13: Manual roller application				
4. Guidance to Downstream by the Exposure Scenario	User to evalu	ate whether he w	orks inside the	e boundaries set
When the recommended risk are observed, exposures are characterisation ratios are e Confirm that RMMs and OC 1. Short title of Exposure Scenari	e not expected t xpected to be le s are as describ	o exceed the predict ss than 1 ed or of equivalent e	ed DNELs and th	e resulting risk
Main User Groups		: Professional uses:		
Sector of use	: SU 22	tion, entertainment, Professional uses:	Public domain (a	dministration,
Process category	: PROC PROC contro PROC formu PROC (charg non-d PROC discha facilitie PROC contai PROC PROC PROC PROC PROC	 Ba: Transfer of subs jing/discharging) fror edicated facilities Bb: Transfer of subs arging) from/ to vesse 	access, no likelihoo ntinuous process ach process (synth stance or prepara n/to vessels/large stance or prepara els/ large containe ance or preparati g line, including w n or brushing oraying icles by dipping a gh energy conditi	od of exposure with occasional hesis or tion e containers at tion (charging/ ers at dedicated on into small veighing) and pouring ions and in partly
	of pro use of indoor outdoo	cessing aids in open processing aids in c use of substances i or use of substances	systems, Wide d open systems, Wi n closed systems in closed system	ispersive outdoor ide dispersive s, Wide dispersive ns
2.1 Contributing scenario co ERC9a, ERC9b: Wide disper dispersive outdoor use of p of substances in closed sys systems	sive indoor u rocessing aid	se of processing s in open system	aids in open s s, Wide disper	ystems, Wide sive indoor use
SDS Number:100000010948		41/5	53	

Synfluid® PAO 2 cSt	SAFETY DATA SHEE
Version 1.17	Revision Date 2023-05-1
Environment factors not influe Remarks	enced by risk management : Not applicable isures / Organizational measures
Remarks	: A quantitative risk assessment is not required for the environment.
PROC8b, PROC9, PROC10, Use in closed, continuous p substance or preparation (o non-dedicated facilities, Tra from/ to vessels/ large cont preparation into small cont	controlling worker exposure for: PROC1, PROC2, PROC8a, PROC13: Use in closed process, no likelihood of exposure, process with occasional controlled exposure, Transfer of charging/discharging) from/to vessels/large containers at ansfer of substance or preparation (charging/ discharging) tainers at dedicated facilities, Transfer of substance or ainers (dedicated filling line, including weighing), Roller eatment of articles by dipping and pouring
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Frequency and duration of use Remarks	e : Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions a Remarks	 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.
	revent /limit releases, dispersion and exposure en seek immediate medical assistance.
2.2 Contributing scenario c spraying	controlling worker exposure for: PROC11: Non industrial
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used Remarks	: Not applicable
Remarks	
Frequency and duration of us	e : Covers daily exposures up to 8 hours (unless stated differently)

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
	ors., Provide a good standard of general ventilation (not less than exposure by partial enclosure of the operation or equipment and
Organizational measures to prevent /I Do not ingest. If swallowed then seek i	limit releases, dispersion and exposure mmediate medical assistance.
Wear chemically resistant gloves (teste	Dersonal protection, hygiene and health evaluation ed to EN374) in combination with specific activity training., Wear a ype A filter or better., Wear suitable gloves tested to EN374.
2.2 Contributing scenario controlli energy conditions and in partly op	ing worker exposure for: PROC17: Lubrication at high pen 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	 g 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 Minimize exposure by partial enclosure openings.	e of the operation or equipment and provide extract ventilation at
Organizational measures to prevent /I Do not ingest. If swallowed then seek i	limit releases, dispersion and exposure mmediate medical assistance.
Conditions and measures related to p Wear suitable gloves tested to EN374.	personal protection, hygiene and health evaluation
3. Exposure estimation and refere	nce 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 Modified		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 Modified		Worker – inhalation, long-term – systemic	0,4 mg/m3	0,1
			Worker - dermal, long-	2,1428 mg/kg/d	0,0
SDS Number:10	00000010948		43/5	53	

SAFETY DATA SHEET

Version	1	17	
1011	. Г.	/	

			term – systemic	1	
			term – systemic Worker – long-term –		0,09
			systemic Combined		
	ECETOC TRA			E ma/m2	0.0
PROC17, CS79	Modified		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 –		0,91
			systemic Combined		
Remarks:	Not applicable		routes		
CS10: Sprayi PROC11: No CS10: Sprayi PROC17: Lul	n industrial sprayi ng	ng nergy cond	litions and in partly open p	process	
		User to e	valuate whether he w	orks inside the I	boundaries so
y the Expos	ure Scenario				
Confirm the		aie as ue	Scribed of of equivalent e	inciency.	
	Exposure Scenario oups	2: Functic : S pr : S : P P ca P ca P ca P (c P (c Q P di	scribed or of equivalent et onal Fluids - Industrial U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed prod ROC2: Use in closed prod ROC2: Use in closed bate ormulation) ROC4: Use in batch and oportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC8b: Transfer of subs ischarging) from/ to vesse	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation h/to vessels/large c tance or preparation	of exposure vith occasional sis or thesis) where on containers at on (charging/
. Short title of I Main User Gr Sector of use	Exposure Scenario oups	2: Functic : S : S : P : S C P c C P fc fc fc fc fc fc fc P fc P f	Dal Fluids - Industrial U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed pro- ROC2: Use in closed, cor ontrolled exposure ROC3: Use in closed bate ormulation) ROC4: Use in batch and oportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC8b: Transfer of subs	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation tance or preparation ance or preparation	of exposure vith occasional sis or thesis) where on containers at on (charging/ s at dedicated into small
I. Short title of I Main User Gr Sector of use Process cate	Exposure Scenario oups	b: Functic : S p : S : P C P fc P fc P (c P di fa P co	U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed pro- ROC2: Use in closed, cor ontrolled exposure ROC3: Use in closed bate ormulation) ROC4: Use in batch and oportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC8b: Transfer of subs scharging) from/ to vesse acilities ROC9: Transfer of substa	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation to vessels/large containers ance or preparation g line, including we	of exposure vith occasional sis or thesis) where on containers at on (charging/ s at dedicated n into small ighing)
I. Short title of I Main User Gr Sector of use Process cate Environmenta 2.1 Contribut	Exposure Scenario	p: Function : S prime : S P Come P for P P P P P P P P P P P P P P P P P P P	U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed pro- ROC2: Use in closed, cor ontrolled exposure ROC3: Use in closed bate ormulation) ROC4: Use in batch and opportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC8b: Transfer of subs ischarging) from/ to vesse acilities ROC9: Transfer of substa	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation tance or preparation sises containers ance or preparation g line, including we ostances in closed	of exposure vith occasional sis or thesis) where on containers at on (charging/ s at dedicated n into small ighing) systems
<u>. Short title of I</u> Main User Gr Sector of use Process cate Environmenta	Exposure Scenario oups gory al release category	b: Function : S prime : S : P P ca P fa P (a P (a p ca ca ca ca ca ca ca ca ca ca	Denail Fluids - Industrial U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed pro- ROC2: Use in closed pro- ROC3: Use in closed, cor ontrolled exposure ROC3: Use in closed bate ormulation) ROC4: Use in batch and oportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC9: Transfer of substa containers (dedicated filling RC7: Industrial use of sub- environmental expos	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation tance or preparation sises containers ance or preparation g line, including we ostances in closed	of exposure vith occasional sis or thesis) where on containers at on (charging/ s at dedicated n into small ighing) systems
I. Short title of I Main User Gr Sector of use Process cate Environmenta	Exposure Scenario oups gory al release category ing scenario co n closed system	b: Function : S prime : S : P P ca P fa P (a P (a p ca ca ca ca ca ca ca ca ca ca	Denail Fluids - Industrial U 3: Industrial uses: Uses reparations at industrial si U3: Industrial Manufactur ROC1: Use in closed pro- ROC2: Use in closed pro- ROC3: Use in closed, cor ontrolled exposure ROC3: Use in closed bate ormulation) ROC4: Use in batch and oportunity for exposure ar ROC8a: Transfer of subs charging/discharging) from on-dedicated facilities ROC9: Transfer of substa containers (dedicated filling RC7: Industrial use of sub- environmental expos	s of substances as tes ing (all) cess, no likelihood ntinuous process w ch process (synthe other process (syn ises tance or preparation to vessels/large containers ance or preparation g line, including we ostances in closed	of exposure vith occasional sis or thesis) where on containers at on (charging/ s at dedicated n into small ighing) systems

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
Remarks	: Not applicable
Technical conditions and measures Remarks	 / Organizational measures : A quantitative risk assessment is not required for the environment.
PROC4, PROC8a, PROC8b, PROC Use in closed, continuous proces batch process (synthesis or form where opportunity for exposure a (charging/discharging) from/to ve Transfer of substance or prepara	ling worker exposure for: PROC1, PROC2, PROC3, C9: Use in closed process, no likelihood of exposure, as with occasional controlled exposure, Use in closed ulation), Use in batch and other process (synthesis) arises, Transfer of substance or preparation essels/large containers at non-dedicated facilities, tion (charging/ discharging) from/ to vessels/ large Transfer of substance or preparation into small including weighing)
Amount used Remarks	: Not applicable
Organizational measures to prevent a Do not ingest. If swallowed then seek	/limit releases, dispersion and exposure immediate medical assistance.
3. Exposure estimation and refere	ence to its source
Remarks: Not applicable	
4. Guidance to Downstream User by the Exposure Scenario	to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Fur	nctional Fluids - Professional
Main User Groups Sector of use Process category	 SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
SDS Number:100000010948	45/53

Version 1.17 Revision Date 2023-05-19 Environmental release category : ERC3a, ERC3b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems 2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive outdoor use of substances in closed systems Environment factors not influenced by risk management Remarks : Not applicable Technical conditions and measures / Organizational measures Remarks : Remarks : Not applicable 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC3, PROC39, PROC20: Use in closed process, no likelihood of exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) fromto vessels/large containers at non-dedicated facilities, Transfer of substance or preparation into small containers (dedicated facilities, Transfer of substance or preparation including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used : Not applicable 3. Exposure estimation and reference to its source : Not applicable : Su 21: Consumer use: Private households (= general public = consumers) Not applicable : Su 21: Consumer use: Private households (= general public = consumers) Product category : SU 21:		SAFETY DATA SHEET
Environmental release category : ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems 2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems 2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive outdoor use of substances in closed systems Environment factors not influenced by risk management Remarks Remarks : Not applicable 72 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC68, PROC20; Use in closed process, no likelihood of exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharge containers at non-dedicated facilities, Transfer of substance or preparation into small containers (decideated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used Remarks: : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : SU 21: Consumer uses: Private households (= general public = con	Synfluid® PAO 2 cSt	
closed systems 2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems Environment factors not influenced by risk management Remarks Remarks : Not applicable Technical conditions and measures / Organizational measures Remarks : A quantitative risk assessment is not required for the environment. 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC3, PROC20: Use in closed process, no likelihood of 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 into small containers (dedicated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Su 21: Consumer uses: Private households (= general public = consumers) Not applicable : SU 21: Consumer uses: Private households (= general public = consumers) Product category : SU 21: Consumer uses: Private households (= general public = consumers)	Version 1.17	Revision Date 2023-05-19
dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems Environment factors not influenced by risk management Remarks : Not applicable Technical conditions and measures / Organizational measures Remarks : A quantitative risk assessment is not required for the environment. 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC9, PROC20: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation into small containers (dedicated facilities, Transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers (dedicated facilities, transfer of substance or preparation into small containers at non-dedicated facilities, transfer of substance or preparation into small containers at the substance set but closed systems Amount used Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario: Not applicable 1. Short title of Exposure Scenario: Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic flu	Environmental release category	closed systems, Wide dispersive outdoor use of substances in
Remarks Not applicable Technical conditions and measures / Organizational measures Remarks A quantitative risk assessment is not required for the environment. 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC9, PROC20: Use in closed process, no likelihood of 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 into small containers (dedicated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used Remarks : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids		
Remarks : Å quantitative risk assessment is not required for the environment. 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation into small containers at non-dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used Remarks : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Not applicable 1. Short title of Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Pro16: Heat transfer fluids PC17: Hydraulic fluids		
PROC8a, PROC9, PROC20: Use in closed process, no likelihood of 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 into small containers (dedicated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems Amount used Remarks : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Not applicable 1. Short title of Exposure Scenario: Functional Fluids - Consumer Rein User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) PC16: Heat transfer fluids PC17: Hydraulic fluids PC17: Hydraulic fluids		: A quantitative risk assessment is not required for the
Remarks : Not applicable 3. Exposure estimation and reference to its source 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: Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	PROC8a, PROC9, PROC20: Use closed, continuous process wit process (synthesis or formulati (charging/discharging) from/to Transfer of substance or prepa	e in closed process, no likelihood of exposure, Use in h occasional controlled exposure, Use in closed batch on), Transfer of substance or preparation vessels/large containers at non-dedicated facilities, ration into small containers (dedicated filling line,
Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Not applicable 1. Short title of Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	Amount used Remarks	: Not applicable
4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Not applicable 1. Short title of Exposure Scenario: Functional Fluids - Consumer Main User Groups : Sector of use : Product category : Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	3. Exposure estimation and refe	erence to its source
by the Exposure Scenario Not applicable 1. Short title of Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	Remarks: Not applicable	
1. Short title of Exposure Scenario: Functional Fluids - Consumer Main User Groups : SU 21: Consumer uses: Private households (= general public = consumers) Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	4. Guidance to Downstream Use by the Exposure Scenario	er to evaluate whether he works inside the boundaries set
Sector of use = consumers) Product category : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids		unctional Fluids - Consumer
Sector of use : SU 21: Consumer uses: Private households (= general public = consumers) Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	Main User Groups	
Product category : PC16: Heat transfer fluids PC17: Hydraulic fluids	Sector of use	: SU 21: Consumer uses: Private households (= general public
SDS Number:100000010948 46/53	Product category	: PC16: Heat transfer fluids
I	SDS Number:100000010948	46/53

	SAFETY DATA SHEET
Synfluid® PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
Environmental release category :	ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
	ng environmental exposure for:ERC9a, ERC9b: Wide es in closed systems, Wide dispersive outdoor use of
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.
2.2 Contributing scenario controlli fluids, Hydraulic fluids	ng consumer exposure for: PC16, PC17: Heat transfer
Amount used Remarks :	Not applicable
3. Exposure estimation and referen	nce to its source
Remarks: Not applicable	
4. Guidance to Downstream User t by the Exposure Scenario	o evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Use	in polymer production – industrial
Main User Groups : Sector of use : Process category : SDS Number:100000010948	SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU 10, SU3: Formulation [mixing] of preparations and/ or re- packaging (excluding alloys), 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 47/53
	47/00

	SAFETY DATA SHEET
Synfluid [®] PAO 2 cSt	
Version 1.17	Revision Date 2023-05-19
	formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC6: Calendering operations PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent
Environmental release category :	ERC4, ERC6c: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics
articles, Industrial use of monomer Environment factors not influenced by Remarks : Technical conditions and measures / C	Not applicable
PROC4, PROC5, PROC6, PROC8a, no likelihood of exposure, Use in cl exposure, Use in closed batch proc other process (synthesis) where op batch processes for formulation of significant contact), Calendering op (charging/discharging) from/to vess Transfer of substance or preparatic	ng worker exposure for: PROC1, PROC2, PROC3, PROC8b, PROC14, PROC15: Use in closed process, losed, continuous process with occasional controlled cess (synthesis or formulation), Use in batch and oportunity for exposure arises, Mixing or blending in preparations and articles (multistage and/ or perations, Transfer of substance or preparation sels/large containers at non-dedicated facilities, on (charging/ discharging) from/ to vessels/ large roduction of preparations or articles by tabletting, on, Use as laboratory reagent
Amount used Remarks : Organizational measures to prevent /lin	Not applicable nit releases, dispersion and exposure
Do not ingest. If swallowed then seek im SDS Number:100000010948	

Version 1.17

Revision Date 2023-05-19

3. Exposure estimation and reference to its source

Remarks: Not applicable

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

Not applicable

1. Short title of Exposure Scenario: Agrochemical uses

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sector of use	: SU 22: Professional uses: Public domain (administration,
Process category	 education, entertainment, services, craftsmen) PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
	PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
	The row row meaning of anticles by dipping and pouning
Environmental release category	 ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
	Iling environmental exposure for:ERC8a, ERC8d: Wide sing aids in open systems, Wide dispersive outdoor use ems
Environment factors not influenced Remarks	by risk management : Not applicable
Technical conditions and measures Remarks	 <i>i</i> Organizational measures A quantitative risk assessment is not required for the environment.
2.2 Contributing scenario contro	Iling worker exposure for: PROC1, PROC2, PROC4,
	e in closed process, no likelihood of exposure, Use in
	occasional controlled exposure, Use in batch and other
SDS Number:100000010948	49/53

SAFETY DATA SHEET

Version 1.17

process (synthesis) where en	
preparation (charging/dischar facilities, Transfer of substand	portunity for exposure arises, Transfer of substance or ging) from/to vessels/large containers at non-dedicated e or preparation (charging/ discharging) from/ to vessels/ facilities, Treatment of articles by dipping and pouring
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	 cting 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.
	ent /limit releases, dispersion and exposure eek immediate medical assistance.
2.2 Contributing scenario cont spraying	trolling worker exposure for: PROC11: Non industrial
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Amount used	
Remarks	: Not applicable
Remarks	: Not applicable
Remarks	 Not applicable Covers daily exposures up to 8 hours (unless stated differently)
Remarks Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Technical conditions and measur	 Covers daily exposures up to 8 hours (unless stated differently) cting 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.
Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Technical conditions and measur Ensure operation is undertaken ou (10 to 15 air changes per hour) Organizational measures to prevent	 Covers daily exposures up to 8 hours (unless stated differently) cting 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.
Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Technical conditions and measur Ensure operation is undertaken ou (10 to 15 air changes per hour) Organizational measures to preve Do not ingest. If swallowed then se Conditions and measures related Wear suitable gloves tested to EN	 Covers daily exposures up to 8 hours (unless stated differently) cting 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. resultdoors., Provide a good standard of general or controlled ventilation ent /limit releases, dispersion and exposure
Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Technical conditions and measur Ensure operation is undertaken ou (10 to 15 air changes per hour) Organizational measures to preve Do not ingest. If swallowed then se Conditions and measures related Wear suitable gloves tested to EN combination with specific activity to better.	 Covers daily exposures up to 8 hours (unless stated differently) cting 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. res utdoors., Provide a good standard of general or controlled ventilation ent /limit releases, dispersion and exposure eek immediate medical assistance. to personal protection, hygiene and health evaluation 374., Wear chemically resistant gloves (tested to EN374) in raining., Wear a respirator conforming to EN140 with Type A filter or
Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Technical conditions and measur Ensure operation is undertaken ou (10 to 15 air changes per hour) Organizational measures to preve Do not ingest. If swallowed then se Conditions and measures related Wear suitable gloves tested to EN combination with specific activity to	 Covers daily exposures up to 8 hours (unless stated differently) cting 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. res utdoors., Provide a good standard of general or controlled ventilation ent /limit releases, dispersion and exposure eek immediate medical assistance. to personal protection, hygiene and health evaluation 374., Wear chemically resistant gloves (tested to EN374) in raining., Wear a respirator conforming to EN140 with Type A filter or

Version 1.17

Revision Date 2023-05-19

Workers/Consumers

PROC11, CS25 ECETOO		Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):	
Modif Remarks: Not appl PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release 2.1 Contributing scen	CETOC TRA Modified		Worker – inhalation, long-term – systemic	1,4 mg/m3	0,3	
Modif Remarks: Not appl PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release			Worker – dermal, long- term – systemic	21,428 mg/kg/d	0,2	
Modif Remarks: Not appl PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release			Worker – long-term – systemic Combined routes		0,46	
Remarks: Not appl PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release 2.1 Contributing scen	CETOC TRA Modified		Worker – inhalation, long-term – systemic	0,6 mg/m3	0,1	
PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release			Worker – dermal, long- term – systemic	21,428 mg/kg/d	0,2	
PROC11: Non industria CS24: Spraying/ foggin PROC11: Non industria CS25: Spraying/ foggin 4. Guidance to Downs by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release			Worker – long-term – systemic Combined routes		0,32	
by the Exposure Scer When the recommer are observed, expos characterisation ratio Confirm that RMMs a 1. Short title of Exposure Main User Groups Sector of use Product category Environmental release 2.1 Contributing scen	ogging by ma lustrial sprayir	inual applicatio				
are observed, expos characterisation ratio Confirm that RMMs a <u>1. Short title of Exposure</u> Main User Groups Sector of use Product category Environmental release 2.1 Contributing scen		User to evalu	uate whether he w	orks inside the	e boundaries set	
Sector of use Product category Environmental release 2.1 Contributing scen	exposures are n ratios are ex /IMs and OCs	not expected t pected to be less are as describ	to exceed the predict less than 1 bed or of equivalent e	ed DNELs and th		
Product category Environmental release 2.1 Contributing scen			I: Consumer uses: P sumers)	rivate households	s (= general public	
Environmental release 2.1 Contributing scen		: SU 21	 = consumers) SU 21: Consumer uses: Private households (= ge 			
2.1 Contributing scen		: PC12	 = consumers) : PC12: Fertilizers PC27: Plant protection products 			
	ease category	•	d: Wide dispersive o systems	outdoor use of pro	cessing aids in	
					: Wide	
Technical conditions an Remarks				nent is not require	ed for the	
SDS Number:100000010	ns and meas	•	onment.			

Version 1.17

SAFETY DATA SHEET

Revision Date 2023-05-19

2.2 Contributing scenario controlling consumer exposure for: PC12, PC27: Fertilizers, Plant protection products

Amount used

Remarks

: Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

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

Not applicable

Product category

1. Short title of Exposure Scenario: Other consumer uses

Main User Groups:SU 21: Consumer uses: Private households (= general public
= consumers)Sector of use:SU 21: Consumer uses: Private households (= general public

 SU 21: Consumer uses: Private households (= general public = consumers)
 PC28: Perfumes, fragrances

aids in open systems, Wide dispersive outdoor use of

PC39: Cosmetics, personal care products

processing aids in open systems

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

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

Technical conditions and measures / Organizational measures Remarks : A quantitative risk assess

: A quantitative risk assessment is not required for the environment.

SDS Number:100000010948

52/53

Version 1.17

Revision Date 2023-05-19

SAFETY DATA SHEET

2.2 Contributing scenario controlling consumer exposure for: PC28, PC39: Perfumes, fragrances, Cosmetics, personal care products

Amount used

Remarks

: Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

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

Not applicable

SDS Number:100000010948

53/53