

Version 1.16 Revision Date 2025-10-22

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 information

Product Name : Synfluid® PAO 6 cSt HVI

Material : 10691074, 1113306, 1113305, 10691818

EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	J
1-Dodecene, Trimer,	151006-62-1	
Hydrogenated	417-070-7	Chevron Phillips Chemical Company LP
	601-064-00-8	01-0000016388-62-0004
1-Dodecene,	151006-63-2	
Homopolymer,	438-390-3	Chevron Phillips Chemical Company LP
Hydrogenated		01-0000018318-67-0002

 $1.\overline{2}$

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

Relevant Identified Uses : Formulation

Supported Lubricants - Industrial

Lubricants - Professional Lubricants - Consumer

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

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

Uses advised against : This material should not be used for purposes other than the

identified uses in section 1 without expert advice.

1.3

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

9500 Lakeside Blvd.

The Woodlands, TX 77381

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Number:100000101665 1/34

Version 1.16 Revision Date 2025-10-22

SDS Requests: (800) 852-5530

Responsible Party: Product Safety Group

Email:sds@cpchem.com

1.4

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

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

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

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

Argentina: +(54)-1159839431

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

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

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

Bulgaria: +359 2 9154 233

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

Cyprus: 1401

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

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

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

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

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

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

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

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

Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858:

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

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

Malta: +356 2395 2000

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

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

Portugal: CIAV phone number: +351 800 250 250

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

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

hours/day, 7 days/week)

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

Sweden: 112 - ask for Poisons Information

Organization that prepared

: Product Safety and Toxicology Group

the SDS

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

SECTION 2: Hazards identification

2.1

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

Not a hazardous substance or mixture.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3

Other hazards

Results of PBT and vPvB

assessment

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

or higher.

Endocrine disrupting

properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according

to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB, UVCB

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
1-Dodecene, Trimer,	151006-62-1		50 - 80	
Hydrogenated	417-070-7			
	601-064-00-8			

SDS Number:100000101665 3/34

Version 1.16 Revision Date 2025-10-22

SECTION 4: First aid measures

4.1

Description of first-aid measures

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

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

advice. If symptoms persist, call a physician.

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

irritation persists, consult a specialist.

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

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

4.2 Most important symptoms and effects, both acute and delayed Notes to physician

: No information available. **Symptoms**

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

: 246-271°C (475-520°F) Flash point

Method: Cleveland Open Cup

Autoignition temperature : 351°C (664°F)

5.1

Extinguishing media

Suitable extinguishing

media

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

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

fighting

Specific hazards during fire : Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.

5.3

Advice for firefighters

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

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

SDS Number:100000101665 4/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

Hazardous decomposition

products

: Carbon oxides.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Evacuate personnel to safe areas. Material can

create slippery conditions.

6.2

Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3

Methods and materials for containment and cleaning up

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

suitable, closed containers for disposal.

6.4

Reference to other sections

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

considerations see section 13.

SECTION 7: Handling and storage

7.1

Precautions for safe handling Handling

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

drinking should be prohibited in the application area.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers
Uses advised against

: Electrical installations / working materials must comply with the

technological safety standards.

: This material should not be used for purposes other than the

identified uses in section 1 without expert advice.

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

SECTION 8: Exposure controls/personal protection

8.2

Exposure controls

SDS Number:100000101665 5/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

Engineering measures

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

Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

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

respirator may be appropriate.

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

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

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

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

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

protective clothing.

Hygiene measures : General industrial hygiene practice.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Form : liquid
Physical state : liquid
Color : Colorless
Odor : Odorless

Safety data

Flash point : 246-271°C (475-520°F)

Method: Cleveland Open Cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : 351°C (664°F)

SDS Number:100000101665 6/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

Molecular formula : UVCB, UVCB

Molecular weight : Not applicable

рΗ : Not applicable

: <-40°C (<-40°F) Pour point

Boiling point/boiling range : >260°C (>500°F)

Vapor pressure : No data available

Density : 6,87 - 6,96 L/G

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

Viscosity, kinematic : 29,5 cSt

at 40°C (104°F) Method: ASTM D 445

: No data available Relative vapor density

: No data available Evaporation rate

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable at normal ambient temperature and pressure.

10.2

Chemical stability : No decomposition if stored and applied as directed.

10.3

Possibility of hazardous reactions

Hazardous reactions : Further information: Stable under recommended storage

conditions., No hazards to be specially mentioned.

10.4

Conditions to avoid : No data available.

10.5

Materials to avoid : No data available.

10.6

Hazardous decomposition : Carbon oxides

products

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

SDS Number:100000101665 7/34

Version 1.16 Revision Date 2025-10-22

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Synfluid® PAO 6 cSt HVI

Acute oral toxicity

: LD50: > 5.000 mg/kg

Species: Rat

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Acute inhalation toxicity : LC50: > 5 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: dust/mist

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Acute dermal toxicity

: LD50: > 2.000 mg/kg

Species: Rat

Information given is based on data obtained from similar

substances.

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Skin irritation

: No skin irritation

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Eye irritation

: No eve irritation

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Sensitization

: Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Repeated dose toxicity

: Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 0, 1000 mg/kg/day Exposure time: 28 days

NOEL: 1.000 mg/kg

Method: OECD Test Guideline 407

Information given is based on data obtained from similar

substances.

Synfluid® PAO 6 cSt HVI

Genotoxicity in vitro

: Test Type: Ames test

Result: negative

Remarks: Information refers to the main ingredient.

SDS Number:100000101665

Version 1.16 Revision Date 2025-10-22

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Information refers to the main ingredient.

Synfluid® PAO 6 cSt HVI Genotoxicity in vivo

: Test Type: Mouse micronucleus assay

Result: negative

Remarks: Information refers to the main ingredient.

Synfluid® PAO 6 cSt HVI Reproductive toxicity

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

substances.

Synfluid® PAO 6 cSt HVI Developmental Toxicity

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

substances.

Synfluid® PAO 6 cSt HVI Aspiration toxicity

Toxicology Assessment

: No aspiration toxicity classification.

Synfluid® PAO 6 cSt HVI CMR effects

: Carcinogenicity:

Contains no ingredient listed as a carcinogen

Mutagenicity:

Animal testing did not show any mutagenic effects.

Teratogenicity:

Did not show teratogenic effects in animal experiments.

Reproductive toxicity: No toxicity to reproduction

11.2

Information on other hazards

Synfluid® PAO 6 cSt HVI

Further information

Endocrine disrupting

properties

: 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

12.1

Toxicity

Ecotoxicity effects

Toxicity to fish : Not classified due to data which are conclusive although

SDS Number:100000101665 9/34

Version 1.16 Revision Date 2025-10-22

insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates

: Not classified due to data which are conclusive although

insufficient for classification.

Toxicity to algae : Not classified due to data which are conclusive although

insufficient for classification.

12.2

Persistence and degradability

Biodegradability : Result: Expected to be inherently biodegradable.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

12.4

Mobility in soil

Mobility : No data available

12.5

Results of PBT and vPvB assessment

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

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

0.1% or higher.

12.6

Endocrine disrupting properties

Endocrine disrupting

properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7

Other adverse effects

Additional ecological

information

: No data available

12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

: This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

This material is not expected to be harmful to aquatic

organisms.

SDS Number:100000101665 10/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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

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

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

handling site for recycling or disposal.

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.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

SDS Number:100000101665 11/34

Version 1.16 Revision Date 2025-10-22

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

Other information : | Polyolefin (molecular weight 300+), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

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

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

Water hazard class : WGK 1 slightly hazardous to water

(Germany) Classification according VwVwS, Annex 2.

15.2

Chemical Safety Assessment

Components : 1-Dodecene,

Trimer,

Hydrogenated

Chemical Safety Assessment

1-Dodecene, Homopolymer, Hydrogenated

Major Accident Hazard :

: ZEU_SEVES3 Update: Not applicable

Legislation

Notification status

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

regulation 1907/2006/EC.

United States of America (USA)

TSCA

On or in compliance with the active portion of the

TSCA inventory

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

DSL

Other AICS

Japan ENCS Korea KECI

New Zealand NZIoC

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

All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is

permitted if the Korean Importer of Record was

included on CPChem's notifications or if the Importer of

SDS Number:100000101665 12/34

Version 1.16 Revision Date 2025-10-22

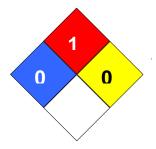
Record themselves notified the substances.

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

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1
Reactivity Hazard: 0



Revision Date 2025-10-22 **Date of last issue** 2023-05-19

Further information

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

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

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet						
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%			
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level			
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency			
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health			
CNS	Central Nervous System	NTP	National Toxicology Program			
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals			
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level			
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration			
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration			
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit			
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances			
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic			
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery			

SDS Number:100000101665 13/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

			Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

SDS Number:100000101665 14/34

	SAFETY DATA SHEET
Synfluid® PAO 6 cSt HVI	Devision Data 2025 40 22
Version 1.16	Revision Date 2025-10-22
SDS Number:100000101665	15/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

Annex: Exposure Scenarios

Table of Contents

Number	Title	
ES 1	Formulation; Industrial uses (SU3).	
ES 2	Lubricants - Industrial; Industrial uses (SU3).	
ES 3	Lubricants - Professional; Professional uses (SU22).	
ES 4	Lubricants - Consumer; Consumer uses (SU21).	
ES 5	Metal working fluids / rolling oils - Industrial; Industrial uses (SU3).	
ES 6	Metal working fluids / rolling oils - Industrial; Professional uses (SU22).	
ES 7	Functional Fluids - Industrial; Industrial uses (SU3).	
ES 8	Functional Fluids - Professional; Professional uses (SU22).	
ES 9	Functional Fluids - Consumer; Consumer uses (SU21).	

SDS Number:100000101665 16/34

Version 1.16 Revision Date 2025-10-22

ES 1: Formulation; Industrial uses (SU3).

1.1. Title section

Exposure Scenario name : Formulation

Structured Short Title : Formulation; Industrial uses (SU3).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Formulation ERC2

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,001 %

Water - minimum efficiency of 0,01 %

Soil - minimum efficiency of 0,001 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

SDS Number:100000101665 17/34

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Version 1.16 Revision Date 2025-10-22

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Protection Target Exposure estimate	
Air	0,0000236 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	1,0 mg/kg wet weight (EUSES)	0,227

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES Not applicable

SDS Number:100000101665 18/34

SAFETY	DATA	SHEET
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Version 1.16 Revision Date 2025-10-22

ES 2: Lubricants - Industrial; Industrial uses (SU3).

2.1. Title section

Exposure Scenario name : Lubricants - Industrial

Structured Short Title : Lubricants - Industrial; Industrial uses (SU3).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Lubricants - Industrial ERC4, ERC7,

ERC8a, ERC8d, ERC9a, ERC9b

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,003 %

Water - minimum efficiency of 0,000 %

Soil - minimum efficiency of 0,1 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

SDS Number:100000101665 19/34

			SAFETY DATA SHEET			
Synfluid® PAO 6 cSt HVI						
Version 1.16			Revision Date 2025-10-22			
Receiving surface water flow	:	18.000 m3/d				
Local freshwater dilution factor	:	10				
Local marine water dilution factor	:	100				

2.3. Exposure estimation and reference to its source

Not applicable

SDS Number:100000101665

2.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	n Target Exposure estimate F	
Air	0,0000044 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,08 mg/kg wet weight (EUSES)	0,018

2.4.	Guidance to	DU to evaluat	e whether	he works i	nside the k	oundaries s	et by the E

20/34

Synfluid® PAO 6 cSt HVI

Version 1.16 Revision Date 2025-10-22

ES 3: Lubricants - Professional; Professional uses (SU22).

3.1. Title section

Exposure Scenario name : Lubricants - Professional

Structured Short Title : Lubricants - Professional; Professional uses (SU22).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Lubricants - Professional

ERC4, ERC7, ERC8a, ERC8d, ERC9a, ERC9b

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 25

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment. Air - minimum efficiency of 0,01 % Water - minimum efficiency of 0,25 %

Soil - minimum efficiency of 0,25 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

SDS Number:100000101665 21/34

			SAFETY DATA SHEET
Synfluid® PAO 6 cSt HV	1		
Version 1.16			Revision Date 2025-10-22
Receiving surface water flow	:	18.000 m3/d	
Local freshwater dilution factor	:	10	
Local marine water dilution factor		100	

3.3. Exposure estimation and reference to its source

Not applicable

3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR
Air	0,0000044 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,08 mg/kg wet weight (EUSES)	0,841

3.4	. Guidance to	DU to evalua	ate whether	he works in	iside the bour	ndaries set by	y the ES

SDS Number:100000101665 22/34

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Version 1.16 Revision Date 2025-10-22

ES 4: Lubricants - Consumer; Consumer uses (SU21).

4.1. Title section

Exposure Scenario name : Lubricants - Consumer

Structured Short Title : Lubricants - Consumer; Consumer uses (SU21).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Lubricants - Consumer

ERC4, ERC7, ERC8a, ERC8d, ERC9a,

ERC9b

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 365

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

SDS Number:100000101665 23/34

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Synfluid® PAO 6 cSt HVI	
Version 1.16	Revision Date 2025-10-22
4.3. Exposure estimation and reference to it	s source
Widespread use of non-reactive processing aid	f functional fluid at industrial site (ERC7) / (no inclusion into or onto article, indoor) (ERC8a) /
Additional information on exposure estimation	
Not applicable for wide dispersive uses.	
4.4. Guidance to DU to evaluate whether he	works inside the boundaries set by the ES
Not applicable	
Two applicable	
SDS Number:100000101665	24/34

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Version 1.16 Revision Date 2025-10-22

ES 5: Metal working fluids / rolling oils - Industrial; Industrial uses (SU3).

5.1. Title section

Exposure Scenario name : Metal working fluids / rolling oils - Industrial

Structured Short Title : Metal working fluids / rolling oils - Industrial; Industrial uses

(SU3).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Metal working fluids / rolling oils - Industrial ERC4, ERC8a, ERC8d,

ERC9a, ERC9b

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 20

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,001 %

Water - minimum efficiency of 0,000 %

Soil - minimum efficiency of 0 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

SDS Number:100000101665 25/34

	SAFETY DATA SHEET
Synfluid® PAO 6 cSt HVI	
Version 1.16	Revision Date 2025-10-22
Local freshwater dilution factor : 10	
Local marine water dilution factor : 100	

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR
Air	0,000009 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,167 mg/kg wet weight (EUSES)	0,038

5.4. Guidance to	DU to evaluate	whether he works	inside the bound	aries set by th	e ES
Not applicable					

SDS Number:100000101665 26/34

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Version 1.16 Revision Date 2025-10-22

ES 6: Metal working fluids / rolling oils - Industrial; Professional uses (SU22).

6.1. Title section

Exposure Scenario name : Metal working fluids / rolling oils – Professional

Structured Short Title : Metal working fluids / rolling oils - Industrial; Professional uses

(SU22).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Metal working fluids / rolling oils - Industrial ERC4, ERC8a, ERC8d, ERC8d,

ERC9a, ERC9b

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 365

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,01 %

Water - minimum efficiency of 1,25 %

Soil - minimum efficiency of 1,25 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

SDS Number:100000101665 27/34

	SAFETY DATA SHEET
Synfluid® PAO 6 cSt HVI	
Version 1.16	Revision Date 2025-10-22
Local freshwater dilution factor : 10	
Local marine water dilution factor : 100	

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR
Air	0,0000005 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,076 mg/kg wet weight (EUSES)	0,017

6.4	. Guidance to	o DU to evaluat	e whether he wo	orks inside the b	oundaries set	by the ES
Not	applicable					

SDS Number:100000101665 28/34

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Version 1.16 Revision Date 2025-10-22

ES 7: Functional Fluids - Industrial; Industrial uses (SU3).

7.1. Title section

Exposure Scenario name : Functional Fluids - Industrial

Structured Short Title : Functional Fluids - Industrial; Industrial uses (SU3).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Functional Fluids - Industrial

ERC7, ERC9a, ERC9b

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 20

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,01 %

Water - minimum efficiency of 0,000 %

Soil - minimum efficiency of 0,1 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

SDS Number:100000101665 29/34

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Version 1.16 Revision Date 2025-10-22

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR
Air	0,0000012 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,077 mg/kg wet weight (EUSES)	0,017

Sea sediment	0,018 mg/kg wet weight (EUSES) 0,462
Soil	0,077 mg/kg wet weight (EUSES) 0,017
7.4. Guidance to DII to	evaluate whether he works inside the boundaries set by the ES
	evaluate whether he works histoe the boundaries set by the ES
Not applicable	

SDS Number:100000101665 30/34

Version 1.16 Revision Date 2025-10-22

ES 8: Functional Fluids - Professional; Professional uses (SU22).

8.1. Title section

Exposure Scenario name : Functional Fluids - Professional

Structured Short Title : Functional Fluids - Professional; Professional uses (SU22).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Functional Fluids - Professional

ERC7, ERC9a, ERC9b

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 365

Technical and organisational conditions and measures

Try to prevent the material from entering drains or water courses.

Provide onsite wastewater treatment.

Air - minimum efficiency of 0,01 %

Water - minimum efficiency of 0,625 %

Soil - minimum efficiency of 0,625 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Controlled application of sewage sludge to agricultural soil

STP effluent : 2.000 m3/d

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

SDS Number:100000101665 31/34

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Version 1.16 Revision Date 2025-10-22

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR
Air	0,0000005 mg/m³ (EUSES)	
Freshwater	0,0000009 mg/l (EUSES)	0,000
Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,072 mg/kg wet weight (EUSES)	0,016

Freshwater sediment	0,072 mg/kg wet weight (EUSES)	0,184
Sea water	0,0000002 mg/l (EUSES)	0,000
Sea sediment	0,018 mg/kg wet weight (EUSES)	0,462
Soil	0,072 mg/kg wet weight (EUSES)	0,016
8.4. Guidance to DU to evalu	ate whether he works inside the	e boundaries set by the ES
Not applicable		

SDS Number:100000101665 32/34

SAFETY DATA SHEET

Version 1.16 Revision Date 2025-10-22

ES 9: Functional Fluids - Consumer; Consumer uses (SU21).

9.1. Title section

Exposure Scenario name : Functional Fluids - Consumer

Structured Short Title : Functional Fluids - Consumer; Consumer uses (SU21).

Substance : 1-Dodecene trimer, hydrogenated

EC-No.: 417-070-7

Environment

CS 1 Lubricants - Consumer ERC7, ERC9a, ERC9b

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type : Continuous release

Emission days : 365

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure: Use of functional fluid at industrial site (ERC7) / Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Additional information on exposure estimation

Not applicable for wide dispersive uses.

9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Not applicable

SDS Number:100000101665 33/34

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Synfluid® PAO 6 cSt HVI	
Version 1.16	Revision Date 2025-10-22
SDS Number:100000101665 34	4/34
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