



## Synfluid® PAO 9 cSt

Version 1.18

Revision Date 2024-10-15

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 9 cSt  
 Material : 1121045, 1079853, 1079714

##### EC-No.Registration number

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

#### 1.2

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

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

Relevant Identified Uses Supported : Formulation  
 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

#### 1.3

##### Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP  
 10001 Six Pines Drive  
 The Woodlands, TX 77380

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Local : Chevron Phillips Chemicals International N.V.  
 Airport Plaza (Stockholm Building)  
 Leonardo Da Vincilaan 19  
 1831 Diegem  
 Belgium

SDS Requests: (800) 852-5530  
 Responsible Party: Product Safety Group  
 Email:sds@cpchem.com

**1.4****Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

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

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

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

Argentina: +(54)-1159839431

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

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

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

Bulgaria: +359 2 9154 233

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

Cyprus: 1401

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

Denmark: Danish Poison Center (Gifflinjen): +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

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The Netherlands: NVIC: +31 (0)88 755 8000  
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)  
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Portugal: CIAV phone number: +351 800 250 250  
 Romania: +40213183606  
 Slovakia: +421 2 5477 4166  
 Slovenia: Phone number: 112  
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)  
 Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com  
 Website : www.CPChem.com

**SECTION 2: Hazards identification****2.1****Classification of the substance or mixture  
REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

**2.2****Labeling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.3****Other hazards**

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

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

**SECTION 3: Composition/information on ingredients****3.1 - 3.2****Substance or Mixture**

Synonyms : PAO  
Polyalphaolefin

Molecular formula : UVCB

**Hazardous ingredients**

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

**SECTION 4: First aid measures****4.1****Description of first-aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

- Symptoms : No information available.
- Risks : No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

- Treatment : No information available.

**SECTION 5: Firefighting measures**

- Flash point : 262-276°C (504-529°F)  
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.

**5.2****Special hazards arising from the substance or mixture**

- Specific hazards during fire fighting : 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

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surrounding environment.

Fire and explosion protection : Normal measures for preventive fire protection.

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 : Electrical installations / working materials must comply with the technological safety standards.

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

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

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**SECTION 8: Exposure controls/personal protection****8.2****Exposure controls  
Engineering measures**

Adequate ventilation to control airborne 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           | : | 262-276°C (504-529°F)<br>Method: Cleveland Open Cup |
| Lower explosion limit | : | No data available                                   |
| Upper explosion limit | : | No data available                                   |

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Oxidizing properties	: no
Autoignition temperature	: 351°C (664°F)
Molecular formula	: UVCB
Molecular weight	: Not applicable
pH	: Not applicable
Pour point	: <-40°C (<-40°F)
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	: 53 cSt at 40°C (104°F) Method: ASTM D 445
Relative vapor density	: No data available
Evaporation rate	: No data available

**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 products** : Carbon oxides

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

**SECTION 11: Toxicological information****11.1****Information on toxicological effects****Synfluid® PAO 9 cSt****Acute oral toxicity**

: LD50: > 5.000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 9 cSt****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 9 cSt****Acute dermal toxicity**

: LD50: > 2.000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 9 cSt****Skin irritation**

: No skin irritation  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 9 cSt****Eye irritation**

: No eye irritation  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 9 cSt****Sensitization**

: Did not cause sensitization on laboratory animals.  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 9 cSt****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.

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**Genotoxicity in vitro**

: Test Type: Ames test  
 Result: negative  
 Remarks: Information refers to the main ingredient.

Test Type: Chromosome aberration test in vitro  
 Result: negative  
 Remarks: Information refers to the main ingredient.

**Synfluid® PAO 9 cSt  
Genotoxicity in vivo**

: Test Type: Mouse micronucleus assay  
 Result: negative  
 Remarks: Information refers to the main ingredient.

**Synfluid® PAO 9 cSt  
Reproductive toxicity**

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

**Synfluid® PAO 9 cSt  
Developmental Toxicity**

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

**Synfluid® PAO 9 cSt  
Aspiration toxicity  
Toxicology Assessment**

: No aspiration toxicity classification.

**Synfluid® PAO 9 cSt  
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 9 cSt  
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**

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**Ecotoxicity effects****Toxicity to fish**

1-Dodecene, Trimer, Hydrogenated : LC50: > 1.000 mg/l  
 Exposure time: 96 h  
 Species: Oncorhynchus mykiss (rainbow trout)  
 The product has low solubility in the test medium. An aqueous dispersion was tested.

**Toxicity to daphnia and other aquatic invertebrates**

1-Dodecene, Trimer, Hydrogenated : EC50: > 1.000 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 The product has low solubility in the test medium. An aqueous dispersion was tested.

**Toxicity to algae**

1-Dodecene, Trimer, Hydrogenated : EC50: > 1.000 mg/l  
 Species: Selenastrum capricornutum (algae)  
 The product has low solubility in the test medium. An aqueous dispersion was tested.

**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.

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**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.

**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.

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**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

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

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

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

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

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

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

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

<b>Other information</b>	<b>: Polyolefin (molecular weight 300+), S.T. 2, Cat.Y</b>
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**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 (Germany)** : WGK 1 slightly hazardous to water  
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 Legislation** : ZEU\_SEVES3 Update:  
Not applicable

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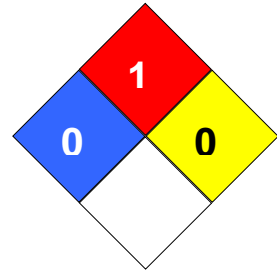
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**Notification status**

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	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.
Philippines PICCS	:	On the inventory, or in compliance with the inventory
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

**Further information**

Legacy SDS Number : 5653

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%
AIRC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency

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NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

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**Annex: 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).



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**ES 1: Formulation; Industrial uses (SU3).****1.1. Title section**

<b>Exposure Scenario name</b>	: Formulation
<b>Structured Short Title</b>	: Formulation; Industrial uses (SU3).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated EC-No.: 417-070-7

**Environment**

<b>CS 1</b>	<b>Formulation</b>	<b>ERC2</b>
-------------	--------------------	-------------

**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

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**1.3. Exposure estimation and reference to its source****1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)**

Protection Target	Exposure estimate	RCR
Air	0,0000236 mg/m <sup>3</sup> (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

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**ES 2: Lubricants - Industrial; Industrial uses (SU3).****2.1. Title section**

<b>Exposure Scenario name</b>	: Lubricants - Industrial
<b>Structured Short Title</b>	: Lubricants - Industrial; Industrial uses (SU3).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated EC-No.: 417-070-7

**Environment**

<b>CS 1</b>	<b>Lubricants - Industrial</b>	ERC4, ERC7, ERC8a, ERC8d, ERC9a, ERC9b
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**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**

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Receiving surface water flow : 18.000 m<sup>3</sup>/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

**2.3. Exposure estimation and reference to its source**

**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	Exposure estimate	RCR
Air	0,0000044 mg/m <sup>3</sup> (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 evaluate whether he works inside the boundaries set by the ES**

Not applicable

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**ES 3: Lubricants - Professional; Professional uses (SU22).****3.1. Title section**

<b>Exposure Scenario name</b>	: Lubricants - Professional
<b>Structured Short Title</b>	: Lubricants - Professional; Professional uses (SU22).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated <u>EC-No.:</u> 417-070-7

**Environment**

<b>CS 1</b>	<b>Lubricants - Professional</b>	ERC4, ERC7, ERC8a, ERC8d, ERC9a, ERC9b
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**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**

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Receiving surface water flow : 18.000 m<sup>3</sup>/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

**3.3. Exposure estimation and reference to its source**

**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/m <sup>3</sup> (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 evaluate whether he works inside the boundaries set by the ES**

Not applicable

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**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**

<b>CS 1</b>	<b>Lubricants - Consumer</b>	ERC4, ERC7, ERC8a, ERC8d, ERC9a, ERC9b
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**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

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**4.3. Exposure estimation and reference to its source**

**4.3.1. 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)**

**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



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**ES 5: Metal working fluids / rolling oils - Industrial; Industrial uses (SU3).****5.1. Title section**

<b>Exposure Scenario name</b>	: Metal working fluids / rolling oils - Industrial
<b>Structured Short Title</b>	: Metal working fluids / rolling oils - Industrial; Industrial uses (SU3).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated EC-No.: 417-070-7

**Environment**

<b>CS 1</b>	<b>Metal working fluids / rolling oils - Industrial</b>	ERC4, ERC8a, ERC8d, ERC9a, ERC9b
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**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

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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/m <sup>3</sup> (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 boundaries set by the ES**

Not applicable

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**ES 6: Metal working fluids / rolling oils - Industrial; Professional uses (SU22).****6.1. Title section**

<b>Exposure Scenario name</b>	: Metal working fluids / rolling oils – Professional
<b>Structured Short Title</b>	: Metal working fluids / rolling oils - Industrial; Professional uses (SU22).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated EC-No.: 417-070-7

**Environment**

<b>CS 1</b>	<b>Metal working fluids / rolling oils - Industrial</b>	ERC4, ERC8a, ERC8d, ERC9a, ERC9b
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**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

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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/m <sup>3</sup> (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 DU to evaluate whether he works inside the boundaries set by the ES**

Not applicable

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**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 - IndustrialERC7, 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

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**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/m <sup>3</sup> (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

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

Not applicable

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**ES 8: Functional Fluids - Professional; Professional uses (SU22).****8.1. Title section**

<b>Exposure Scenario name</b>	: Functional Fluids - Professional
<b>Structured Short Title</b>	: Functional Fluids - Professional; Professional uses (SU22).
<b>Substance</b>	: 1-Dodecene trimer, hydrogenated EC-No.: 417-070-7

**Environment**

<b>CS 1</b>	<b>Functional Fluids - Professional</b>	ERC7, ERC9a, ERC9b
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**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

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**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/m <sup>3</sup> (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

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

Not applicable



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**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 - ConsumerERC7, 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 m<sup>3</sup>/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

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