



TotalEnergies

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK  
REACH Regulation SI 2019/758

## DYNATRANS AC 10W\_discontinued

SDS no. 36377

:

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

#### 1.1 Product identifier

Product name : DYNATRANS AC 10W\_discontinued

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

Identified uses
Formulation additives, lubricants and greases - Industrial
General use of lubricants and greases in vehicles or machinery - Industrial
General use of lubricants and greases in vehicles or machinery - Professional
Transmission fluids

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

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rm.gb-msds@totalenergies.com

#### Contact

H.S.E

#### 1.4 Emergency telephone number

##### National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

##### Supplier

Telephone number : Emergency telephone: +44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 - Causes serious eye irritation.

### Precautionary statements

**General** : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.

**Prevention** : P280 - Wear eye/face protection.  
P264 - Wash thoroughly after handling.

**Response** : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Contains dihydro-3-(tetrapropenyl)furan-2,5-dione. May produce an allergic reaction.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

## 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Distillates (petroleum), hydrotreated heavy paraffinic dihydro-3-(tetrapropenyl)furan-2,5-dione	EC: 265-157-1 CAS: 64742-54-7	≥10 - <25	Aquatic Chronic 4, H413	[1]
	REACH #: 01-2119979080-37 EC: 247-781-6 CAS: 26544-38-7	<0.2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Chronic 4, H413 <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

**Additional information** : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : No specific data.

#### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### **Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)**

No exposure limit value known.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment

of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Advisory OEL** : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

## DNELs/DMELs

Product/substance	Type	Exposure	Value	Population	Effects
Distillates (petroleum), hydrotreated heavy paraffinic	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	970 µg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Oral	740 µg/kg bw/day	General population	Systemic
dihydro-3-(tetrapropenyl)furan-2,5-dione	DNEL	Long term Dermal	0.33 mg/kg bw/day	Workers	Systemic

## PNECs

Product/ingredient name	Compartment Detail	Name	Method Detail
Distillates (petroleum), hydrotreated heavy paraffinic dihydro-3-(tetrapropenyl)furan-2,5-dione	Secondary Poisoning	9.33 mg/kg	-
	Fresh water	0.02 mg/l	-
	Marine water	0.002 mg/l	-
	Fresh water sediment	1.7 mg/kg dwt	-
	Marine water sediment	0.17 mg/kg dwt	-
	Soil	0.2 mg/kg dwt	-
	Sewage Treatment Plant	10 mg/l	-

## 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.  
Hydrocarbon-proof gloves  
nitrile rubber  
Fluorinated rubber  
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.  
In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator with combination filter for vapour/particulate Type A/P1 Warning ! filters have a limited use duration The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses None under normal use conditions
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid. [Clear]
- Colour** : Yellow.toAmber.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Open cup: >220°C [Cleveland Open Cup (COC)]



Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 0.882 to 0.886
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Miscible with water	: No.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C): 37 mm <sup>2</sup> /s
Explosive properties	: Not available.
Oxidising properties	: Not applicable
<u>Particle characteristics</u>	
Median particle size	: Not applicable.

## 9.2 Other information

Solubility in water : Insoluble

## SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Strong oxidising agents
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity





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Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	5.53 mg/l	4 hours	OECD 403 Acute Inhalation Toxicity
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401 Acute Oral Toxicity
dihydro-3-(tetrapropenyl) furan-2,5-dione	LC50 Inhalation Dusts and mists	Rat	5.3 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>5 g/kg	-	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat	2900 mg/kg	-	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Acute toxicity estimates

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Distillates (petroleum), hydrotreated heavy paraffinic	N/A	N/A	N/A	N/A	5.53
dihydro-3-(tetrapropenyl)furan-2,5-dione	2900	N/A	N/A	N/A	5.3

### Irritation/Corrosion

#### **Conclusion/Summary**

**Skin** : Based on available data, the classification criteria are not met.

**Eyes** : Causes serious eye irritation.

**Respiratory** : Based on available data, the classification criteria are not met.

### Sensitisation

**Conclusion/Summary** :

**Skin** : Based on available data, the classification criteria are not met.

**Respiratory** : Based on available data, the classification criteria are not met.

### Mutagenicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Reproductive toxicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Teratogenicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/substance	Category	Route of exposure	Target organs
dihydro-3-(tetrapropenyl)furan-2,5-dione	Category 3	-	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Defatting to the skin. May cause skin dryness and irritation.  
**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
**Ingestion** : No specific data.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Not available.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic dihydro-3-(tetrapropenyl) furan-2,5-dione	Acute EC50 10000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Acute EC50 110 to 160 mg/l	Algae	96 hours	-
	Acute EC50 800 mg/l	Micro-organism	3 hours	-

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Product/substance	LogK <sub>ow</sub>	BCF	Potential
dihydro-3-(tetrapropenyl) furan-2,5-dione	4.39	-	high

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**Mobility in soil** : Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water. Loss by evaporation is limited.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 13 02 05\*

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions** : Not applicable.

**on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

**Other EU regulations**

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed



**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**LU - Luxembourg prohibited chemicals in the workplace**

Not listed.

**Inventory list**

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (CSCL)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.

**Thailand** : Not determined.  
**Turkey** : Not determined.  
**United States** : Not determined.  
**Viet Nam** : Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Value** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Expert judgment

### Full text of abbreviated H statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.

### Full text of classifications [CLP/GHS]

Aquatic Chronic 4 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1A STOT SE 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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**Date of revision** : 2021/09/28  
**Date of previous revision** : No previous validation  
**Version** : 1

### Notice to reader



**TotalEnergies**

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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 36377  
**Product name** : DYNATRANS AC 10W\_discontinued

### Section 1 - Title

**Short title of the exposure scenario** : Formulation additives, lubricants and greases - Industrial

**List of use descriptors** : **Identified use name:** Formulation additives, lubricants and greases - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC15  
**Sector of end use:** SU03, SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC02

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**General exposures Use in contained systems Elevated temperature** - PROC02  
**Mixing operations Closed systems Batch processes at elevated temperatures** - PROC03  
**Mixing operations Open systems Batch processes at elevated temperatures** - PROC04, PROC05  
**Mixing operations (open systems)** - PROC04, PROC05  
**Process sampling** - PROC04, PROC08b  
**Bulk transfers Dedicated facility** - PROC08b  
**Drum/batch transfers Dedicated facility** - PROC08b  
**Drum/batch transfers Non-dedicated facility** - PROC08a  
**Equipment cleaning and maintenance** - PROC08a, PROC08b  
**Drum and small package filling** - PROC09  
**Laboratory activities** - PROC15  
**Storage** - PROC01, PROC02

<b>Processes and activities covered by the exposure scenario</b>	: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance.
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### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: **General measures applicable to all activities**

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100 %. (unless stated differently)  
**Physical state** : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure  
**Amounts used** : Not applicable.  
**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently)  
**Human factors not influenced by risk management** : Not applicable.  
**Other conditions affecting workers exposure** : Covers percentage substance in the product up to 100% (unless stated differently)

**Date of issue/Date of revision** : 3/10/2020

16/27



**Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: General exposures Use in contained systems Elevated temperature**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Mixing operations Closed systems Batch processes at elevated temperatures**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 5: Mixing operations Open systems Batch processes at elevated temperatures**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Mixing operations (open systems)**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 7: Process sampling**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 1 hour per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 8: Bulk transfers Dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 9: Drum/batch transfers Dedicated facility**

**Ventilation control measures** : Provide extract ventilation to points where emissions occur.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Contributing scenario controlling worker exposure for 10: Drum/batch transfers Non-dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 1 hour per day.

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 11: Equipment cleaning and maintenance**

**Technical conditions and measures to control dispersion from source towards the worker** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down and flush system prior to equipment break-in or maintenance.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Clear spills immediately.

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 12: Drum and small package filling**

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 13: Laboratory activities**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 14: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model..

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 3: General exposures Use in contained systems Elevated temperature**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 4: Mixing operations Closed systems Batch processes at elevated temperatures**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 5: Mixing operations Open systems Batch processes at elevated temperatures**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 6: Mixing operations (open systems)**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 7: Process sampling**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 8: Bulk transfers Dedicated facility**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 9: Drum/batch transfers Dedicated facility**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 10: Drum/batch transfers Non-dedicated facility**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 11: Equipment cleaning and maintenance**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 12: Drum and small package filling**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 13: Laboratory activities**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 14: Storage**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

<b>Environment</b>	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .
<b>Health</b>	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .

**Additional good practice advice beyond the REACH CSA**

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 36377  
**Product name** : DYNATRANS AC 10W\_discontinued

### Section 1 - Title

**Short title of the exposure scenario** : General use of lubricants and greases in vehicles or machinery - Industrial

**List of use descriptors** : **Identified use name:** General use of lubricants and greases in vehicles or machinery - Industrial  
**Process Category:** PROC01, PROC02, PROC08b, PROC09  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04, ERC07

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**General exposures (closed systems)** - PROC01  
**Initial factory fill of equipment Use in contained systems** - PROC02, PROC09  
**Initial factory fill of equipment Open systems** - PROC08b  
**Operation of equipment containing engine oils and similar Use in contained systems** - PROC01  
**Equipment cleaning and maintenance** - PROC08b  
**Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)** - PROC08b  
**Storage** - PROC01, PROC02

<b>Processes and activities covered by the exposure scenario</b>	: Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.
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### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: **General measures applicable to all activities**

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100% (unless stated differently).

**Physical state** : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure.

**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently).

**Other conditions affecting workers exposure** : Assumes use at not more than 20°C above ambient temperature. unless stated differently.  
Assumes a good basic standard of occupational hygiene has been implemented.

#### **Conditions and measures related to personal protection, hygiene and health evaluation**

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: General exposures (closed systems)**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Initial factory fill of equipment Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 5: Initial factory fill of equipment Open systems**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Ventilation control measures** : Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour)

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Operation of equipment containing engine oils and similar Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 7: Equipment cleaning and maintenance**

**Technical conditions and measures at process level (source) to prevent release** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Ventilation control measures** : Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 8: Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)**

**Technical conditions and measures to control dispersion from source towards the worker** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Ventilation control measures** : Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with intensive management supervision controls.

**Contributing scenario controlling worker exposure for 9: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model..

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 4: Initial factory fill of equipment Use in contained systems**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 5: Initial factory fill of equipment Open systems**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 6: Operation of equipment containing engine oils and similar Use in contained systems**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 7: Equipment cleaning and maintenance**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 8: Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 9: Storage**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

<b>Environment</b>	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .
<b>Health</b>	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .

### Additional good practice advice beyond the REACH CSA

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.



## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mixture  
**Code** : 36377  
**Product name** : DYNATRANS AC 10W\_discontinued

### Section 1 - Title

**Short title of the exposure scenario** : General use of lubricants and greases in vehicles or machinery - Professional

**List of use descriptors** : **Identified use name:** General use of lubricants and greases in vehicles or machinery - Professional  
**Process Category:** PROC01, PROC02, PROC08a, PROC08b, PROC20  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09a, ERC09b

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures applicable to all activities**  
**Operation of equipment containing engine oils and similar Use in contained systems** - PROC01  
**Material transfers Non-dedicated facility** - PROC08a  
**Equipment cleaning and maintenance Dedicated facility** - PROC08b, PROC20  
**Storage** - PROC01, PROC02

**Processes and activities covered by the exposure scenario** : Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

### Section 2 - Exposure controls

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

**Concentration of substance in mixture or article** : Covers percentage substance in the product up to 100% (unless stated differently).

**Physical state** : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure.

**Frequency and duration of use/exposure** : Covers daily exposures up to 8 hours (unless stated differently).

**Other conditions affecting workers exposure** : Assumes use at not more than 20°C above ambient temperature. unless stated differently.  
Assumes a good basic standard of occupational hygiene has been implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

**Advice on general occupational hygiene** : Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** : Use suitable eye protection.

**Contributing scenario controlling worker exposure for 3: Operation of equipment containing engine oils and similar Use in contained systems**

No other specific measures identified.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 4: Material transfers Non-dedicated facility**

**Frequency and duration of use/exposure** : Avoid carrying out activities involving exposure for more than 4 hours per day.

**Conditions and measures related to personal protection, hygiene and health evaluation**

**Personal protection** : Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

**Contributing scenario controlling worker exposure for 5: Equipment cleaning and maintenance Dedicated facility**

**Technical conditions and measures at process level (source) to prevent release** : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls** : Drain down system prior to equipment break-in or maintenance.

**Conditions and measures related to personal protection, hygiene and health evaluation****Contributing scenario controlling worker exposure for 6: Storage**

**Engineering controls** : Store substance within a closed system.

**Conditions and measures related to personal protection, hygiene and health evaluation****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : Used ECETOC TRA model..

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 3: Operation of equipment containing engine oils and similar Use in contained systems**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 4: Material transfers Non-dedicated facility**

**Exposure assessment (human):** : The risk Management Measures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 5: Equipment cleaning and maintenance Dedicated facility**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Exposure estimation and reference to its source - Workers: 6: Storage**

**Exposure assessment (human):** : The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** : Not available.

**Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

<b>Environment</b>	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .
<b>Health</b>	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see <a href="http://www.atiel.org/reach/introduction">www.atiel.org/reach/introduction</a> .

**Additional good practice advice beyond the REACH CSA**

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.