

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

FLUIDMATIC ATX

SDS #: 090164

previous revision date

: 2022/07/26

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

1.1 Product identifier

Product name

: FLUIDMATIC ATX

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

Identified uses

Transmission fluids

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

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 rm.msds-lubs@totalenergies.com

TotalEnergies Marketing Romania SA Str. Stejarilor, nr. 2, Cristian, Brasov, 507055 Tel: 00 40 268 40 17 11 Fax: 00 40 268 40 17 26 fds-romania@totalenergies.com

Contact

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	: Romania Emergency Clinical Hospital Bucharest (non-stop, 24 h/7d): 021 5992300, int. 182, 444, 213, 455 Other bodies responsible for receiving health information: Targu Mures County Emergency Clinical Hospital Direct phone: 0265 210 110 Central Telephone (non-stop, 24 h/7z): 0372 653 100; 0372 683 700; 0265 212 111 Other institutions (child poisoning): Grigore Alexandrescu Children's Hospital, Bucharest TOXAPEL Telephone (24h/24h): 021 2106282; 021 2106183 Moldavia Serviciul Național Unic Pentru Apelurile de Urgență: 112
<u>Supplier</u>	
Telephone number	: Emergency phone: +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]

Aquatic Chronic 3, H412

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

Signal word	: No signal word.
Hazard statements	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read carefully and follow all instructions.
Prevention	: P273 - Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Not applicable.
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 in a concentration >= 0,1 %. Other hazards which do : Hazard of slipping on spilled product. not result in classification

SECTION 3: Composition/information on ingredients

Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≥25 - ≤50	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2	≤10	Asp. Tox. 1, H304	-	[1] [2]



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mineral oil	-	≤3	Asp. Tox. 1, H304	-	[1]
1-(tert-dodecylthio)propan- 2-ol	REACH #: 01-2119953277-30 EC: 266-582-5 CAS: 67124-09-8	≤1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Skin Sens. 1, H317: C ≥ 14.2% M [Acute] = 1 M [Chronic] = 1	[1]
2,6-di-tert-butyl-p-cresol	REACH #: 01-2119480433-40 EC: 204-881-4 CAS: 128-37-0	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	REACH #: 01-2120040541-70 EC: 939-141-6	≤1	Skin Sens. 1B, H317	Skin Sens. 1B, H317: C ≥ 10%	[1]
methyl-1H-benzotriazole	REACH #: 01-2119979081-35 EC: 249-596-6 CAS: 29385-43-1	≤0.3	Acute Tox. 4, H302 Repr. 2, H361d (oral) Aquatic Chronic 2, H411	ATE [Oral] = 720 mg/kg	[1]
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	REACH #: 01-2119510877-33 EC: 620-540-6 CAS: 1218787-32-6	≤0.22	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1200 mg/kg M [Acute] = 10 M [Chronic] = 1	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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. Get medical attention if irritation occurs.		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
Skin contact	: ₩ash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
Ingestion	: ₩ash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.		

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: No specific data.
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	: Use dry chemical, CO ₂ , water spray (fog) or foam.
media	. Use dry chemical, CO_2 , water spray (log) of roam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans
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.

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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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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). Water polluting material.
6.3 Methods and materials fo	r 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 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 spilled 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 vapor or mist. Avoid release to the environment. 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 unlabeled 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.
Solutions		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
ቓistillates (petroleum), hydrotreated light paraffinic	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Mineral oil, other than mineral oils that have previously been used in internal combustion engines to lubricate and cool moving parts of the engine] VLA: 5 mg/m ³ 8 hours. Short term: 10 mg/m ³ 15 minutes.
Distillates (petroleum), hydrotreated light naphthenic	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). [Mineral oil, other than mineral oils that have previously been used in internal combustion engines to lubricate and cool moving parts of the engine] VLA: 5 mg/m ³ 8 hours. Short term: 10 mg/m ³ 15 minutes.
toluene	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 192 mg/m ³ 8 hours. VLA: 50 ppm 8 hours. Short term: 384 mg/m ³ 15 minutes. Short term: 100 ppm 15 minutes.

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.

Biological Limit Values (BLV)

Product/ingredient name		Exposure indices		
foluene		HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 3 mg/l, o-cresol [in urine]. Sampling time: end of shift. OBLV: 2 g/l, hippuric acid [in urine]. Sampling time: end of shift.		
Recommended monitoring : procedures	European Stand assessment of e values and mea atmospheres - C of exposure to c (Workplace atm for the measure	Id be made to monitoring standards, such as the following: lard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment hemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be		



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Advisory OEL

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
Sistillates (petroleum), hydrotreated light paraffinic	DNEL	Long term Inhalation	5.4 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1.2 mg/m³	General population	Local
	DNEL	Long term Oral	0.74 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.97 mg/ kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m ³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
Distillates (petroleum), hydrotreated light naphthenic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m ³	population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
1-(tert-dodecylthio)propan-2-ol	DNEL	Short term Dermal	107.7 μg/ cm²	General population	Local
	DNEL	Short term Dermal	215.4 µg/ cm²	Workers	Local
	DNEL	Long term Oral	0.84 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	3.34 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	11.8 mg/m ³	Workers	Systemic
2,6-di-tert-butyl-p-cresol	DNEL	Long term Oral	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.435 mg/ m³	General population	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
methyl-1H-benzotriazole	DNEL	Long term Oral	0.01 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.01 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	350 µg/m³	General	Systemic



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		Inhalation		population	
	DNEL	Long term Inhalation	21.2 mg/m ³	Workers	Systemic
2,2'-(C16-18 (evennumbered, C18	DNEL	Long term Oral	0.214 mg/	General	Systemic
unsaturated) alkyl imino) diethanol	DNEL	Long term Dermal	kg bw/day 0.214 mg/ kg bw/day	population General population	Systemic
	DNEL	Long term Dermal	0.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.745 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation	2.112 mg/ m ³	Workers	Systemic
toluene	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m³	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Name	Method Detail
1-(tert-dodecylthio)propan-2-ol	Fresh water	0.0064 mg/l	-
	Marine water	0.00064 mg/l	-
	Fresh water sediment	1.8 mg/kg dwt	-
	Marine water sediment	0.18 mg/kg dwt	-
	Soil	0.21895 mg/kg	-
		dwt	
	Sewage Treatment	100 mg/l	-
	Plant	Ū	
2,6-di-tert-butyl-p-cresol	Fresh water	199 ng/l	-
	Marine water	19.9 ng/l	-
	Sewage Treatment	17 µg/l	-
	Plant		
	Fresh water sediment	458.19 µg/kg dwt	-
	Marine water sediment	45.82 µg/kg dwt	-
	Soil	53.9 µg/kg dwt	-
	Secondary Poisoning	16.67 mg/kg	-
benzenesulfonic acid, 4-(branched alkyl	Fresh water	0.1 mg/l	-
derivs.) and benzenesulfonic acid, 4-(linear		Ŭ	
alkyl dervis.), calcium salts			
• /	Marine water	0.1 mg/l	-
	Fresh water sediment	45211 mg/kg dwt	-
	Marine water sediment	45211 mg/kg dwt	-



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	Soil	47025 mg/kg dwt	-
	Sewage Treatment	1000 mg/l	-
	Plant		
methyl-1H-benzotriazole	Fresh water	0.008 mg/l	-
	Marine water	0.02 mg/l	-
	Fresh water sediment	0.117 mg/kg dwt	-
	Marine water sediment	0.292 mg/kg dwt	-
	Soil	0.0187 mg/kg dwt	-
	Sewage Treatment	39.4 mg/l	-
	Plant	Ũ	
2,2'-(C16-18 (evennumbered, C18	Fresh water	0.000214 mg/l	-
unsaturated) alkyl imino) diethanol		Ū	
, , ,	Marine water	0.0000214 mg/l	-
	Fresh water sediment	1.692 mg/kg dwt	-
	Marine water sediment	0.1692 mg/kg dwt	-
	Soil	5 mg/kg dwt	-
	Sewage Treatment	1.5 mg/l	-
	Plant	Ū	
toluene	Fresh water	0.68 mg/l	-
	Marine water	0.68 mg/l	-
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
	Soil	2.89 mg/kg dwt	-
	Sewage Treatment	13.61 mg/l	-
	Plant	U U	
		1	

8.2 Exposure controls

:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
res	
:	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.
:	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: safety glasses with side-shields.EN 166
:	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
	r <u>es</u> :



	complying with ISO 21420 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.
Respiratory protection	: Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces In case of inadequate ventilation wear respiratory protection: 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
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						
	-	Linuid [linemid]				
Physical state		Liquid. [limpid]				
Color	:	Red.				
Odor	:	Characteristic.				
рН	;	Not applicable.	Product is non-soluble (i	n wate	r).	
Melting point/freezing point	:	Not applicable.				
Initial boiling point and boiling range	:	₩316°C [ISO 3405]				
Flash point	:	Open cup: 210°C [ASTM D 92]				
Flammability	:	Not applicable.				
Lower and upper explosion limit	:	Lower: 0.9% Upper: 7%				
Vapor pressure	:	<0.013 kPa [room temperature] Not applicable. [50°C]				
Vapor density	:	>2 [Air = 1]				
Relative density	:	0.858 to 0.88 [ISO 3675]				
Density	:	0.858 to 0.88 g/cm3 [15°C] [ISC	3675]			
Solubility(ies)	:					
Media		Result				
water		Not soluble				
Miscible with water	:	No.				
Partition coefficient: n-octanol/ water	:	Not applicable.				
Auto-ignition temperature	:	✓210°C [ASTM E 659]				
Decomposition temperature	:	Not applicable.				
Viscosity	:	Kinematic (40°C): 40 mm²/s [IS	O 3104]			
Particle characteristics		-				
Median particle size	:	Not applicable.				
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9.2 Other information

Pour point	: -51°C (-59.8°F)
SECTION 10: Stabilit	ty and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides sulfur oxides Hydrogen sulfide Mercaptans

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
₱istillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
Distillates (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
1-(tert-dodecylthio)propan- 2-ol	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	2201 mg/kg	-	OECD 434
	LD50 Oral	Rat	5500 mg/kg	-	-
2,6-di-tert-butyl-p-cresol	LD50 Dermal	Rat	>2000 mg/kg	-	-
	LD50 Oral	Rat	>2930 mg/kg	-	-
methyl-1H-benzotriazole	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat	720 mg/kg	-	OECD 401
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	LD50 Oral	Rat - Male, Female	1200 mg/kg	-	OECD 425
toluene	LC50 Inhalation Vapor	Rat - Male	25.7 mg/l	4 hours	-
	LD50 Dermal	Rabbit - Male	12267 g/kg	-	-
	LD50 Oral	Rat - Male	>5000 mg/kg	-	EU B.1



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Acute
Toxicity (Oral)
(Oral)

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
✓-(tert-dodecylthio)propan-2-ol	5500	2201	N/A	N/A	5.1
methyl-1H-benzotriazole	720	N/A	N/A	N/A	N/A
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	1200	N/A	N/A	N/A	N/A
toluene	N/A	12267000	N/A	25.7	N/A

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

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	Skin - Erythema/Eschar	Rabbit	2.67	-	OECD 404
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Conclusion/Summary

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

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

Sensitization

Product/substance	Route of exposure	Species	Result	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	skin	Guinea pig	Not sensitizing	
Conclusion/Summary		' 		
Skin	: Based on available data, the classification criteria are not met.			
Respiratory	: Based on available data, the classification criteria are not met.			
<u>Mutagenicity</u>				



Product/substance	Test	Experiment	t	Result	
methyl-1H-benzotriazole	OECD 471	Experiment: In vitro Subject: Bacteria	ative		
	OECD 476	Experiment: In vitro Subject: Mammalian-Ar		ative	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	OECD 471	Experiment: In vitro Subject: Bacteria	Neg	jative	
	OECD 476 Read across	Experiment: In vitro Subject: Mammalian-Ar	•	jative	
Conclusion/Summary	: Based on available da	ta, the classification crite	ria are not met.		
<u>Carcinogenicity</u> Conclusion/Summary	: Based on available da	ta, the classification crite	ria are not met.		
Reproductive toxicity					
Conclusion/Summary	: Based on available da	: Based on available data, the classification criteria are not met.			
<u>Teratogenicity</u>					
Product/substance	Result	Species	Dose	Exposure	

Product/substance	Result	Species	Dose	Exposure
methyl-1H-benzotriazole	Positive - Oral	Rat	-	-

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
toluene	Category 3	-	Narcotic effects

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

Specific target organ toxicity (repeated exposure)

Product/substance	Category	Route of exposure	Target organs
toluene	Category 2	-	-

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

Aspiration hazard

Product/substance	Result
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD - Category 1
mineral oil	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Conclusion/Summary : B

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

Information on the likely : Not available.

routes of exposure

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
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 Inhalation	: No specific data. : No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>		
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

Product/substance	Result	Species	Dose	Exposure	
methyl-1H-benzotriazole	Sub-acute NOAEL Oral	Rat - Male, Female	150 mg/kg	-	
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.				
Reproductive toxicity	: No known significant effects or critical hazards.				

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product contains substance(s), present at a concentration equal to or greater than 0.1% by mass, known to have endocrine disrupting properties included in the list drawn up in accordance in Article 59 of the REACh Regulation or in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Phenol, dodecyl-, branched

11.2.2 Other information

Not available.

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects.

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
♥istillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchnerella subcapitata	48 hours	OECD 201
	Acute EC50 >10000 mg/l	Daphnia - Daphnia magna	48 hours	OECD 202
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna	21 days	OECD 211
	Chronic NOEL >1000 mg/l	Fish - Oncorhynchus mykiss	21 days	-
Distillates (petroleum),	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	-

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hydrotreated light naphthenic				
1-(tert-dodecylthio)propan-	Acute LC50 5001 mg/l Acute EC50 0.58 mg/l	Fish Daphnia - <i>Daphnia magna</i>	96 hours 48 hours	- OECD 202
2-ol		Fish		
2.6 di tort butul p orogal	Acute LC50 0.75 mg/l	Fish	96 hours	-
2,6-di-tert-butyl-p-cresol	Acute EC50 0.758 mg/l	Algae	72 hours 48 hours	- OECD 202
	Acute EC50 0.48 mg/l	Crustaceans - Daphnia magna		OECD 202
	Acute LC50 0.199 mg/l	Fish	96 hours	-
	Chronic NOEC 0.069 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	Acute EC50 >1000 mg/l	Algae - Selenastrum capricomutum	72 hours	-
	Acute EC50 >1000 mg/l	Daphnia - Cladocere	48 hours	-
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours	-
	,	mykiss		
	Acute LC50 >10000 mg/l	Micro-organism - <i>sludge</i>	3 hours	-
methyl-1H-benzotriazole	Acute EC50 75 mg/l	Algae -	72 hours	OECD 201
,	5	Pseudokirchneriella		
		subcapitata		
	Acute EC50 8.58 mg/l	Crustaceans - Daphnia galatea	48 hours	OECD 202
	Acute LC50 55 mg/l	Fish - Cyprinodon variegatus	96 hours	OECD 203
	Acute LC50 38 mg/l Fresh	Fish - Pimephales	96 hours	-
	water	promelas		
	Chronic EC50 2.86 mg/l	Algae - Desmodesmus	72 hours	OECD 201
	3	subspicatus		
	Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia galatea	21 days	OECD 211
2,2'-(C16-18	Acute EC50 0.0538 mg/l	Algae -	72 hours	-
(evennumbered, C18 unsaturated) alkyl imino) diethanol		Pseudokirchneriella subcapitat		
	Acute EC50 0.043 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours	-
	Acute EC50 167 mg/l	Micro-organism	3 hours	-
	Chronic EC10 0.0107 mg/l	Daphnia - <i>Daphnia magna</i>	21 days	-
toluene	Acute EC50 134 mg/l	Algae - Chlorella vulgaris	3 hours	-
	Acute EC50 3.78 mg/l	Daphnia - Ceriodaphnia dubia	48 hours	-
	Acute EC50 84 mg/l	Micro-organism	24 hours	-
	Acute LC50 5500 µg/l	Fish - Oncorhynchus	96 hours	-
	Fresh water	kisutch - Fry		
	Chronic LOEL 2.77 mg/l	Fish - Oncorhynchus kisutch	40 days	-
	Chronic NOEC 10 mg/l	Algae - Skeletonema costatum	72 hours	-
	Chronic NOEC 0.74 mg/l	Daphnia - Ceriodaphnia dubia	7 days	-
	Chronic NOEC 1.39 mg/l	Fish - Oncorhynchus kisutch	40 days	-
Conclusion/Summary	· Not available	1		

Conclusion/Summary

: Not available.

12.2 Persistence and degradability



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Product/substance	Test	Result		Dose	Inoculum	
methyl-1H-benzotriazole	OECD 301D	4 % - Not readily - 2	28 days	-	Activated sludge	
Conclusion/Summary	conclusion/Summary : Not available.					
Product/substance	Aquatic half-life		Photolysi	s	Biodegradability	
Distillates (petroleum), hydrotreated light naphthenic 1-(tert-dodecylthio)propan-	-		-		Not readily Not readily	
2-ol 2,6-di-tert-butyl-p-cresol methyl-1H-benzotriazole toluene			- - -		Not readily Not readily Readily	

12.3 Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
1-(tert-dodecylthio)propan- 2-ol	4.7	-	High
2,6-di-tert-butyl-p-cresol	4.17	330 to 1800	High
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	10.88	-	High
methyl-1H-benzotriazole	1.1	-	Low
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	3.6	110.2	Low
toluene	2.73	90	Low

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: 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 in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

This product contains substance(s), present at a concentration equal to or greater than 0.1% by mass, known to have endocrine disrupting properties included in the list drawn up in accordance in Article 59 of the REACh Regulation or in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Phenol, dodecyl-, branched

12.7 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 minimized 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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (tert-dodecylthio) propan-2-ol, 2,6-di- tert-butyl-p-cresol)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

: The product is only regulated as a dangerous good when transported in tank vessels.

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.

ADN



14.7 Maritime transport in : Not available. bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors	: Not applicable.
Ozone depleting substance	<u>es (1005/2009/EU)</u>
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

Product/ingredient name	List name	Name on list	Classification	Notes
toluene	Romania Ministry of Social Assistance and Family Policies and Ministry of Public Health	toluen	Repro. R2	-

National regulatory information

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GD 398/2010 on establishing measures for application of Regulation (EC) no. 1.272 / 2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC). 1.907 / 2006GD 477/2009 on establishing penalties for infringements of the provisions of Regulation (EC) no. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Agency for Chemicals, amending Directive 1999/45 / EC and repealing Regulation (EEC) No . 793/93 and Regulation (EC) no. 1,488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC of the CommissionGD 1218/2006 laying down minimum requirements for safety and health at work for the protection of workers from risks related to chemical agents

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 inventory (AIIC)	: All components are listed or exempted.
Canada inventory (DSL/NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Europe inventory (EC)	: All components are listed or exempted.
Japan inventory	 Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	: 🕅 components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.
The information stated in this section relates so	lely to the conformity of the chemical product with the

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical Safety : See exposure scenarios **Assessment**



SECTION 16: Other information

Indicates information that has	s changed from previously issued version.
	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration LC50 = Median lethal concentration LD50 = Median lethal dose OEL = Occupational Exposure Limit VOC = Volatile Organic Compound UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material NOEC No Observed Effect Concentration QSAR = Quantitative Structure–Activity Relationship

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

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/0	<u>GHS]</u>
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2

	AGOATIO HAZARD (LONG-TERM) - Odlogoly I
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B



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STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
	Category 5

Date of revision	: 2023/08/02
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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)

Identification of the substance or mixture **Product definition** : Mixture Code : 090164 **Product name** : FLUIDMATIC ATX **Section 1 - Title** Short title of the exposure : Formulation additives, lubricants and greases - Industrial scenario 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 **Processes and activities** : Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance. covered by the exposure scenario

Section 2 - Exposure controls

Contributing scenario contro	lliı	ng environmental exposure for 1:
ATIEL-ATC SPERC 2.Ai-I.v1		
Amounts used	1	Volume manufactured/imported (tonnes/year) : 1.00E+04
		Fraction of EU tonnage used in region : 0.1 Fraction of regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 300
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	;	Negligible wastewater emissions as process operates without water contact.
environmentai exposure		Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 7.40E-12 Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to	;	Treat air emission to provide a typical removal efficiency of (%) : 70
reduce or limit discharges, air emissions and releases to soil		Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organizational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated contained or reclaimed.
Conditions and measures related to sewage treatment plant	:	Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 69 Assumed domestic sewage treatment plant flow (m^3/d) : 2.00E+03 Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/day) : 780 040
Date of issue/Date of revisior	ı	: 6/8/2020 22/2

Industrial

FLUIDMATIC ATX	- Formulation additives, lubricants and greases Industrial
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario contro	olling worker exposure for 2:
No exposure assessment pre	sented for human health.

Section 3 - Exposure estimation and reference to its source

Website:	: Not a	pplicable.
Exposure estimation and ref	rence to) its source - Environment: 1:
Exposure assessment (environment):	: Used	ECETOC TRA model.
Exposure estimation and reference to its source	: Not a	vailable.
Exposure estimation and ref	rence to) its source - Workers: 2:
Exposure assessment (human):	Expo	isk Management Mesures/Operational Conditions that are identified in the sure Scenario are the outcome of a quantitative and qualitative assessment overs this product.
Exposure estimation and reference to its source	: Not a	vailable.

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

Environment	: 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 www.atiel.org/reach/introduction.
Health	: 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 www.atiel.org/reach/introduction.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.

Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture **Product definition** : Mixture Code : 090164 **Product name** : FLUIDMATIC ATX Section 1 - Title Short title of the exposure : General use of lubricants and greases in vehicles or machinery - Industrial scenario 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 **Processes and activities** : Covers general use of lubricants and greases in vehiculs or machinery in closed systems. Includes filling and draining of containers and operation of enclosed covered by the exposure scenario machinery (including engines) and associated maintenance and storage activities.

Section 2 - Exposure controls

Contributing scenario contro	lliı	ng environmental exposure for 1:
ATIEL-ATC SPERC 4.Bi.v1		
Amounts used	;	Volume manufactured/imported (tonnes/year) : 2.63E+03
		Fraction of EU tonnage used in region : 0.1 Fraction of regional tonnage used locally : 0.1
Frequency and duration of use	1	Emission days (days per year) : 300
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Negligible wastewater emissions as process operates without water contact.
environmentar exposure		Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.0E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 7.40E-12 Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organizational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	:	Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 69 Assumed domestic sewage treatment plant flow (m ³ /d) : 2.00E+03 Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal (kg/day) : 205 243
Date of issue/Date of revisior	ı	: 6/8/2020 24/2

Industrial

FLUIDMATIC ATX	General use of lubricants and greases in vehicles or machinery - Industrial
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario contro	Iling worker exposure for 2:
No exposure assessment pre	sented for human health.

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
Exposure estimation and ref	erence to its source - Environment: 1:
Exposure assessment (environment):	: Used ECETOC TRA model.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 2:
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

Environment	: 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 www.atiel.org/reach/introduction.
Health	: 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 www.atiel.org/reach/introduction.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.

Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the subs	stance or mixture
Product definition	: Mixture
Code	: 090164
Product name	: FLUIDMATIC ATX
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
Processes and activities covered by the exposure scenario	: Covers general use of lubricants and greases in vehiculs 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 contro	llir	ng environmental exposure for 1:
ATIEL-ATC SPERC 9.Bp.v1		
Amounts used	:	Volume manufactured/imported (tonnes/year) : 5.39E+03
		Fraction of EU tonnage used in region : 0.1 Fraction of regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 365
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting	:	Negligible wastewater emissions as process operates without water contact.
environmental exposure		Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 1.00E-04 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 5.00E-04 Release fraction to soil from process (after typical onsite RMMs): 1.00E-03
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Prevent discharge of undissolved substance to or recover from onsite wastewater.
Organizational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	:	Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 69 Assumed domestic sewage treatment plant flow (m ³ /d) : 2.00E+03 Maximum allowable site tonnage (M _{Safe}) based on release following total wastewater treatment removal (kg/day) : 516
Date of issue/Date of revision	1	: 6/8/2020 26/2

FLUIDMATIC ATX	General use of lubricants and greases in vehicles or machinery - Professional
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
•	olling worker exposure for 2:
No exposure assessment pre	sented for human health.

Section 3 - Exposure estimation and reference to its source

Website:	: Not applicable.
Exposure estimation and ref	erence to its source - Environment: 1:
Exposure assessment (environment):	: Used ECETOC TRA model.
Exposure estimation and reference to its source	: Not available.
Exposure estimation and ref	erence to its source - Workers: 2:
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

Environment	: 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 www.atiel.org/reach/introduction.
Health	: 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 www.atiel.org/reach/introduction.

Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.