SAFETY DATA SHEET



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

FLUIDMATIC ATX

SDS no.

090164

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

1.1 Product identifier

Product name : FLUIDMATIC ATX

Product code : 090164

Product description: Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses

ransmission 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

Uses advised against

Not applicable.

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

m.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor)

Canary Wharf, London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

m.gb-msds@totalenergies.com

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

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 1/27



SDS no.

090164

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

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 UK CLP Regulation SI 2019/720 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 : ►412 - 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

articles

Not applicable.

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

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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 not result in classification

: Hazard of slipping on spilt product.

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 2/27 2022/10/14



SDS no.

090164

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
☑istillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≥25 - ≤50	Asp. Tox. 1, H304	[1]
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]
mineral oil 1-(tert-dodecylthio)propan-2-ol	- REACH #: 01-2119953277-30 EC: 266-582-5 CAS: 67124-09-8	≤3 ≤1	Asp. Tox. 1, H304 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[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 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
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	[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	[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 (M=10) Aquatic Chronic 1, H410 (M=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	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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>

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 3/27 2022/10/14



SDS no.

090164

SECTION 3: Composition/information on ingredients

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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation

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.

: Wash out mouth with water. Remove dentures if any. If material has been Ingestion

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.

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

: Freat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

: Use dry chemical, CO2, water spray (fog) or foam.

media

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Date of revision: Version: 1 United Kingdom (UK) **ENGLISH** 4/27 2022/10/14



SDS no.

090164

SECTION 5: Firefighting measures

Hazards from the substance or mixture n 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 Hvdrogen 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.

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.

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. Put on appropriate personal protective equipment.

For emergency responders: Frage 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). Water polluting material. May be harmful to the environment if released in large quantities.

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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.

Date of revision: Version: 1 United Kingdom (UK) **ENGLISH** 5/27 2022/10/14



SDS no.

090164

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values
2 ,6-di-tert-butyl-p-cresol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
• •	TWA: 10 mg/m ³ 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 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.

procedures

Recommended monitoring: 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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Date of revision : Version: 1 United Kingdom (UK) **ENGLISH** 6/27 2022/10/14



SDS no.

090164

SECTION 8: Exposure controls/personal protection

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

				Population	Effects
Distillates (petroleum), hydrotreated light paraffinic	DNEL	Long term Inhalation	5.4 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1.2 mg/m³	General population	Local
ļ!	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	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	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		General population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
1-(tert-dodecylthio)propan-2-ol	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/m³	General population	Systemic
	DNEL	Long term Dermal	3.34 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation		Workers	Systemic
	DNEL	Short term Dermal	0.1077 mg/ cm ²	General population	Local
	DNEL	Short term Dermal	0.2154 mg/ cm ²	Workers	Local
2,6-di-tert-butyl-p-cresol	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
	DNEL	Long term Oral	250 μg/kg bw/day	General population	Systemic
	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		Workers	Systemic
methyl-1H-benzotriazole	DNEL	Long term	8.8 mg/m³	Workers	Systemic

Date of revision: Version: 1
2022/10/14
United Kingdom (UK) ENGLISH 7/27



SDS no.

090164

SECTION 8: Exposure controls/personal protection

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			Inhalation			
		DNEL	Long term Oral	0.01 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term Dermal	0.01 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Short term Oral	0.25 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term Dermal	0.3 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	350 µg/m³	General	Systemic
			Inhalation		population	
	2,2'-(C16-18 (evennumbered, C18	DNEL	Long term Oral	0.214 mg/	General	Systemic
	unsaturated) alkyl imino) diethanol			kg bw/day	population	
		DNEL	Long term Dermal	0.214 mg/	General	Systemic
				kg bw/day	population	
		DNEL	Long term Dermal	0.3 mg/kg	Workers	Systemic
				bw/day		
		DNEL	Long term	0.745 mg/	General	Systemic
			Inhalation	m³	population	
		DNEL	Long term	2.112 mg/	Workers	Systemic
			Inhalation	m³		
	toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
		5. IEI		kg bw/day	population	
		DNEL	Long term	56.5 mg/m ³	General	Local
		DNE	Inhalation	FC F / 3	population	0
		DNEL	Long term	56.5 mg/m ³	General	Systemic
		DNEL	Inhalation	100 ma/m³	population Workers	Local
		DINEL	Long term Inhalation	192 mg/m³	VVOIKEIS	Local
		DNEL	Long term	192 mg/m³	Workers	Systemic
		DIVEL	Inhalation	192 1119/111	A A OLVELO	Cystellic
		DNEL	Long term Dermal	226 mg/kg	General	Systemic
		DI TLL	Long tomi Domial	bw/day	population	Cyclonic
		DNEL	Short term	226 mg/m ³	General	Local
		J. 1LL	Inhalation	g/	population	25001
		DNEL	Short term	226 mg/m ³	General	Systemic
		-·· 	Inhalation	•	population	- <i>j</i> - <i>i</i>
		DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
		_	5	bw/day		,
		DNEL	Short term	384 mg/m³	Workers	Local
			Inhalation	5		
		DNEL	Short term	384 mg/m³	Workers	Systemic
			Inhalation			-
			i e e e e e e e e e e e e e e e e e e e			

PNECs

Product/substance	Compartment Detail	Value	Method Detail
<mark>1∕-</mark> (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		
2,6-di-tert-butyl-p-cresol	Fresh water	199 ng/l	-
	Marine water	19.9 ng/l	-

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 8/27 2022/10/14



SDS no. 090164

SECTION 8: Exposure controls/personal protection

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	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			
alkyl dervis.), calcium salts			
, ,	Marine water	0.1 mg/l	_
	Fresh water sediment	45211 mg/kg dwt	_
	Marine water sediment	45211 mg/kg dwt	_
	Soil	47025 mg/kg dwt	_
	Sewage Treatment	1000 mg/l	_
	Plant	J	
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		
2,2'-(C16-18 (evennumbered, C18	Fresh water	0.000214 mg/l	_
unsaturated) alkyl imino) diethanol		3.	
, , ,	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		
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		

8.2 Exposure controls

Appropriate engineering controls

: Sood 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: safety glasses with side-shields.EN 166

Skin protection

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 9/27 2022/10/14



SDS no.

090164

SECTION 8: Exposure controls/personal protection

Hand protection

Ehemical-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 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.

Other skin protection

Exppropriate 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

Finsure 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

Physical state : Liquid. [Clear]

Colour : Red.

Odour : Characteristic.

Odour threshold : Not available.

Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

: >316°C (>600.8°F) [ISO 3405]

Flammability (solid, gas) : Not applicable.

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 10/27



SDS no.

090164

SECTION 9: Physical and chemical properties

Upper/lower flammability or

explosive limits

wer: 0.9% Upper: 7%

Flash point

Open cup: 210°C (410°F) [ASTM D 92]

Auto-ignition temperature

210°C (>410°F) [ASTM E 659]

Decomposition temperature

: Not applicable.

: Not applicable.

Froduct is non-soluble (in water).

Viscosity

Kinematic (40°C): 40 mm²/s [ISO 3104]

Solubility(ies)

Media Result water Not soluble

Miscible with water

: **N**o.

Partition coefficient: n-octanol/: Not applicable.

water

Vapour pressure

√0.013 kPa (<0.097508 mm Hg) [room temperature]
</p>

Not applicable. [50°C (122°F)]

Relative density

: 0.858 to 0.88 [ISO 3675]

Density

: 0.858 to 0.88 g/cm3 [15°C (59°F)] [ISO 3675]

Vapour density

: >2 [Air = 1]

Particle characteristics

Median particle size

: Not applicable.

9.2 Other information

SECTION 10: Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

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

Date of revision : Version: 1 United Kingdom (UK) **ENGLISH**



SDS no.

090164

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Acute toxicity</u>

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
hydrotreated light paraffinic	and mists		_		
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
hydrotreated light	and mists				
naphthenic					
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
1-(tert-dodecylthio)propan-	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	-
2-ol	and mists				
	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 -	>2000 mg/kg	-	OECD 402
		Male, Female			
	LD50 Oral	Rat	720 mg/kg	-	OECD 401
2,2'-(C16-18	LD50 Oral	Rat - Male,	1200 mg/kg	-	OECD 425
(evennumbered, C18		Female			
unsaturated) alkyl imino)					
diethanol	1.0501.1.1.	5.	40 / 2	4.1	
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours	-
	LC50 Inhalation Vapour	Rat - Male,	>20 mg/l	4 hours	-
	I DEO D	Female	40007//-		
	LD50 Dermal	Rabbit - Male	12267 g/kg	-	-
	LD50 Oral	Rat - Male	>5000 mg/kg	-	EU B.1
					Acute
					Toxicity
					(Oral)

Conclusion/Summary Acute toxicity estimates

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

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (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	49	N/A

Irritation/Corrosion

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 12/27 2022/10/14



SDS no.

090164

SECTION 11: Toxicological information

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	-
	Skin - Moderate irritant	Rabbit	-	mg 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.

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

Respiratory Sensitisation

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.

Mutagenicity

Product/substance	Test	Experiment	Result
methyl-1H-benzotriazole	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 Read across	Experiment: In vitro Subject: Mammalian-Animal	Negative

Conclusion/Summary

Carcinogenicity

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

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

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

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

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 13/27



SDS no.

090164

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Product/substance	Category	Route of exposure	Target organs
Toluene	Category 3	-	Narcotic effects

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

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

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Inhalation

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

: No known significant effects or critical hazards. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. **Eye contact** Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation dryness cracking

: No specific data. Ingestion

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Date of revision: Version: 1 United Kingdom (UK) **ENGLISH** 14/27



SDS no.

090164

SECTION 11: Toxicological information

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
 Carcinogenicity
 Mo known significant effects or critical hazards.
 Mutagenicity
 Mo known significant effects or critical hazards.
 Reproductive toxicity
 Mo known significant effects or critical hazards.
 Wo known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

11.2.2 Other information

SECTION 12: Ecological information

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 Chronic NOEL 10 mg/l Chronic NOEL >1000 mg/l	Daphnia - Daphnia magna Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 21 days 21 days	OECD 202 OECD 211
Distillates (petroleum), hydrotreated light naphthenic	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours	-
1-(tert-dodecylthio)propan- 2-ol	Acute LC50 5001 mg/l Acute EC50 0.58 mg/l	Fish Daphnia - Daphnia magna	96 hours 48 hours	- OECD 202
0.0 di tant butul a anasal	Acute LC50 0.75 mg/l	Fish	96 hours	-
2,6-di-tert-butyl-p-cresol	Acute EC50 0.758 mg/l Acute EC50 0.48 mg/l	Algae Crustaceans - Daphnia magna	72 hours 48 hours	OECD 202
	Acute LC50 0.199 mg/l	Fish	96 hours	-
	Chronic NOEC 0.069 mg/l	Crustaceans - Daphnia	21 days	OECD 211
benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	Acute EC50 >1000 mg/l	magna Algae - Selenastrum capricomutum	72 hours	-
Salts	Acute EC50 >1000 mg/l	Daphnia - Cladocere	48 hours	_
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss	96 hours	-
	Acute LC50 >10000 mg/l	Micro-organism - sludge	3 hours	-

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 15/27



SDS no.

090164

methyl-1H-benzotriazole	Acute EC50 75 mg/l	Algae -	72 hours	OECD 201
		Pseudokirchneriella		
		subcapitata		
	Acute EC50 8.58 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
		galatea		
	Acute LC50 55 mg/l	Fish - Cyprinodon	96 hours	OECD 203
		variegatus		
	Acute LC50 38 mg/l Fresh	Fish - Pimephales	96 hours	-
	water	promelas		
	Chronic EC50 2.86 mg/l	Algae - Desmodesmus	72 hours	OECD 201
		subspicatus		
	Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia	21 days	OECD 211
		galatea		
2,2'-(C16-18	Acute EC50 0.0538 mg/l	Algae -	72 hours	-
(evennumbered, C18		Pseudokirchneriella		
unsaturated) alkyl imino)		subcapitat		
diethanol				
	Acute EC50 0.043 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute EC50 167 mg/l	Micro-organism	3 hours	-
A. L	Chronic EC10 0.0107 mg/l	Daphnia - Daphnia magna	21 days	-
toluene	Acute EC50 3.78 mg/l	Daphnia - Ceriodaphnia	48 hours	-
	A	dubia	00 5	
	Acute LC50 5500 µg/l	Fish - Oncorhynchus	96 hours	-
	Fresh water	kisutch - Fry		

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
methyl-1H-benzotriazole	OECD 301D	4 % - Not readily - 28 days	-	Activated sludge

Conclusion/Summary : Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
istillates (petroleum), hydrotreated light naphthenic	-	-	Not readily
1-(tert-dodecylthio)propan- 2-ol	-	-	Not readily
2,6-di-tert-butyl-p-cresol methyl-1H-benzotriazole	-		Not readily Not readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
√-(tert-dodecylthio)propan- 2-ol	4.7	-	high
2,6-di-tert-butyl-p-cresol benzenesulfonic acid, 4- (branched alkyl derivs.) and benzenesulfonic acid, 4- (linear alkyl dervis.), calcium salts	4.17 10.88	330 to 1800 -	high high
methyl-1H-benzotriazole 2,2'-(C16-18	1.1 3.6	110.2	low low

Version: 1 United Kingdom (UK) ENGLISH Date of revision: 16/27



SDS no. 090164

SECTION 12: Ecological information				
(evennumbered, C18 unsaturated) alkyl imino) diethanol				
toluene	2.73	90	low	

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: 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 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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

: The classification of the product may meet the criteria for a hazardous waste.

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.

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 17/27



SDS no.

090164

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

ADN

: 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.

14.7 Maritime 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 UK (GB) /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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Date of revision: Version: 1 United Kingdom (UK) **ENGLISH** 18/27



SDS no.

090164

SECTION 15: Regulatory information

Not listed.

Annex XVII - Restrictions : Not applicable.

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

Seveso Directive

his product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

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.

Inventory list

Australia inventory (AIIC)

Canada inventory

: All components are listed or exempted.

China inventory (IECSC)

: All components are listed or exempted.

Europe inventory

: 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.

MI components are listed or exempted.

New Zealand Inventory of Chemicals

(NZIoC)

Philippines inventory (PICCS)

: All components are listed or exempted.

Korea inventory (KECI)

: All components are listed or exempted.

: All components are listed or exempted.

: All components are listed or exempted.

(TCSI)

Thailand inventory : Not determined.

Turkey inventory : Not determined.

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 19/27



SDS no.

090164

SECTION 15: Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Vietnam inventory : Not determined.

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 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.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging 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

Classification	Justification
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

⊬ 225	Highly flammable liquid and vapour.
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

Date of revision: Version: 1 United Kingdom (UK) ENGLISH 20/27



SDS no.

090164

SECTION 16: Other information

Acute Tox. 4 **ACUTE TOXICITY - Category 4**

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - 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 REPRODUCTIVE TOXICITY - Category 2 Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 Skin Irrit. 2

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1B SKIN SENSITISATION - Category 1B

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

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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.

Date of revision: Version: 1 United Kingdom (UK) **ENGLISH** 21/27

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture : 090164 Code

: FLUIDMATIC ATX **Product name**

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

Processes and activities

covered by the exposure

scenarios

scenario

: Industrial formulation of lubricant additives, lubricants and greases. Includes material

transfers, mixing, large and small scale packing, sampling, maintenance.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

ATIEL-ATC SPERC 2.Ai-I.v1

Amounts used : 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

: 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): 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 reduce or limit discharges, air emissions and releases to soil

: Treat air emission to provide a typical removal efficiency of (%): 70

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.

Organisational measures to prevent/limit release from site

: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

Date of issue/Date of revision : 6/8/2020

Formulation additives, lubricants and greases -

Conditions and measures related to sewage treatment plant

Estimated substance removal from wastewater via domestic sewage treatment (%): (%): 69

Assumed domestic sewage treatment plant flow (m³/d): 2.00E+03 Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/day): 780 040

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 controlling worker exposure for 2:

No exposure assessment presented for human health.

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:

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.

Date of issue/Date of revision : 6/8/2020 23/27

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture Code : 090164

Product name : ►LUIDMATIC ATX

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

Processes and activities

covered by the exposure

scenarios

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 controlling 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

: 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.

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.

Organisational measures to prevent/limit release from site

: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

Date of issue/Date of revision : 6/8/2020

General use of lubricants and greases in vehicles or machinery - Industrial

Conditions and measures related to sewage treatment plant

Estimated substance removal from wastewater via domestic sewage treatment (%): (%):69

Assumed domestic sewage treatment plant flow (m³/d): 2.00E+03

Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/day): 205 243

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 controlling worker exposure for 2:

No exposure assessment presented for human health.

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.

: Not available.

Exposure estimation and reference 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

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
Health	 required. For further information see www.atiel.org/reach/introduction. : 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 substance or mixture

Product definition : Mixture : 090164 Code

: FLUIDMATIC ATX **Product name**

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

Processes and activities

covered by the exposure

scenarios

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 controlling 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 environmental exposure

: Negligible wastewater emissions as process operates without water contact.

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.

prevent/limit release from site

Organisational measures to: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

Date of issue/Date of revision : 6/8/2020

General use of lubricants and greases in vehicles or machinery - Professional

Conditions and measures related to sewage treatment plant

Estimated substance removal from wastewater via domestic sewage treatment (%):
 (%): 69

Assumed domestic sewage treatment plant flow (m³/d): 2.00E+03

Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal (kg/day): 516

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 controlling worker exposure for 2:

No exposure assessment presented for human health.

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:

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.

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