

### SAFETY DATA SHEET

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

## **ALTIS SH 2**

**SDS #**: 30400

Date of previous revision : 2022/02/11

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

#### 1.1 Product identifier

Product name : ALTIS SH 2

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

#### Identified uses

Lubricating grease

Use of lubricants and greases in open systems - Professional

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

Use of lubricants and greases in open systems - Industrial

#### 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

See section 16 to have the contact details of the local supplier

#### **Contact**

H.S.E

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

Telephone number : France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France - Poison centers: ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 08 00 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50 PARIS: 01 40 05 48 48

STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47

**Supplier** 

**Telephone number**: Emergency phone: +44 1235 239670

Revision:2022/10/24 Version: 2 France ENGLISH 1/28



**SDS #**: 30400

## **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** 

**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 : Not applicable.

articles

Not available.

#### 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 not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
mixture of: 3,3'- dicyclohexyl-1,1'- methylenebis (4,1-phenylene)diurea; 3-cyclohexyl-1-(4-(4- (3-octadecylureido)benzyl) phenyl)urea; 3,3'- dioctadecyl-1,1'- methylenebis (4,1-phenylene)diurea	REACH #: 01-0000015606-69 EC: 406-530-2	≤10	Aquatic Chronic 4, H413	-	[1]
4,4'-methylene bis	EC: 233-593-1	≤3	Aquatic Chronic 4,	-	[1]

Revision:2022/10/24 Version: 2 France ENGLISH 2/28



**SDS#:** 

30400

(dibutyldithiocarbamate)	CAS: 10254-57-6		H413		
O,O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate	REACH #: 01-0000015643-71 EC: 406-940-1 CAS: 126019-82-7 Index: 015-171-00-7	≤3	Aquatic Chronic 2, H411	-	[1]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	REACH #: 01-2119491299-23 EC: 270-128-1 CAS: 68411-46-1	≤1	Repr. 2, H361f	-	[1]
4-nonylphenol, branched	EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1300 mg/kg M [Acute] = 10 M [Chronic] = 10	[1] [2]

**Additional information** 

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

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

#### **Type**

Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

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.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

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.

Wash elething before rouge. Clean shape there will be before rouge.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion
 Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Revision:2022/10/24 Version: 2 France ENGLISH 3/28



SDS #: 30400

**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 : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst. 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

 earbon monoxide carbon dioxide nitrogen oxides phosphorus 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.

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.

Revision:2022/10/24 Version: 2 France ENGLISH 4/28



**SDS #**: 30400

### 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. May be harmful to the environment if released in large quantities.

### 6.3 Methods and materials 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 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** 

: Fut 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.

Revision:2022/10/24 Version: 2 France ENGLISH 5/28



**SDS#:** 30400

7.3 Specific end use(s)

Recommendations : Not available. Industrial sector specific : Not available.

solutions

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

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

No exposure limit value known.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Advisory OEL** 

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

### **DNELs/DMELs**

Product/substance	Type	Exposure	Value	Population	Effects
Ø,O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
prioopriorounoute	DNEL	Long term Dermal	16 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.89 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	11.75 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	33.3 mg/ kg bw/day	Workers	Systemic
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	DNEL	Long term Oral	0.04 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.04 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.08 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.14 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	0.6 mg/m <sup>3</sup>	Workers	Systemic
4-nonylphenol, branched	DNEL	Long term Oral	0.08 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.4 mg/kg bw/day	General population	Systemic

Revision:2022/10/24 Version: 2 **ENGLISH** France 6/28



SDS#:

30400

D	NEL	Long term	0.4 mg/m³	General	Systemic
		Inhalation		population	
D	NEL	Long term	0.5 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
D	NEL	Short term	0.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation	· ·	population	
D	NEL	Short term	1 mg/m³	Workers	Systemic
		Inhalation			
D	NEL	Long term Dermal	3.8 mg/kg	General	Systemic
		-	bw/day	population	
D	NEL	Long term Dermal	7.5 mg/kg	Workers	Systemic
		-	bw/day		
D	NEL	Short term Dermal	7.6 mg/kg	General	Systemic
			bw/day	population	
D	NEL	Short term Dermal	15 mg/kg	Workers	Systemic
			bw/day		

#### **PNECs**

Product/ingredient name	Compartment Detail	Name	Method Detail
mixture of: 3,3'-dicyclohexyl-1,1'- methylenebis(4,1-phenylene)diurea; 3-cyclohexyl-1-(4-(4-(3-octadecylureido) benzyl)phenyl)urea; 3,3'-dioctadecyl-1,1'- methylenebis(4,1-phenylene)diurea	Fresh water	0.001 mg/l	-
	Marine water	0.0001 mg/l	-
	Fresh water sediment	2.8 mg/kg dwt	-
	Marine water sediment	0.28 mg/kg dwt	-
	Soil	0.56 mg/kg dwt	-
	Sewage Treatment Plant	1 mg/l	-
O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate	Soil	20 mg/kg dwt	-
'	Fresh water sediment	100 µg/kg dwt	-
	Marine water sediment	10 μg/kg dwt	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	33.8 µg/l	-
· · · · · · · · · · · · · · · · · · ·	Marine water	3.38 µg/l	-
	Fresh water sediment	446 µg/kg dwt	-
	Marine water sediment	44.6 µg/kg dwt	-
	Soil	1.76 mg/kg dwt	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

Hygiene measures

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

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166

#### **Skin protection**

Revision:2022/10/24 Version: 2 France ENGLISH 7/28



**SDS#:** 30400

#### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Hydrocarbon-proof gloves

nitrile rubber Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with 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

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

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.

roduct is non-soluble (in water).

## 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. [grease] Color : light yellow Odor : Characteristic. : Not available. **Odor threshold** : Not applicable.

Melting point/freezing point Initial boiling point and

: >240°C [ISO 3016] : Not applicable.

boiling range

Flash point : Not applicable. **Evaporation rate** : Not available. : Not applicable. **Flammability** 

Revision:2022/10/24 Version: 2 **ENGLISH** 8/28 France



**SDS#:** 30400

Lower and upper explosion

limit

: Not available.

: Not applicable. Vapor pressure Vapor density : Not available. Relative density : 0.9 [ISO 12185]

0.9 g/cm3 [20°C] [ISO 12185] Density

Solubility(ies)

Media Result water Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

: Not applicable. **Auto-ignition temperature** 

: >240°C **Decomposition temperature** 

**Viscosity** : Not applicable.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

## SECTION 10: Stability and reactivity

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

10.2 Chemical stability : 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.

: Strong oxidizing agents 10.5 Incompatible materials

10.6 Hazardous decomposition products : carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

Revision:2022/10/24 Version: 2 France **ENGLISH** 9/28



**SDS #**: 30400

## **SECTION 11: Toxicological information**

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

LD50 Oral

Product/substance	Result	Species	Dose	Exposure	Test
Mixture of: 3,3'- dicyclohexyl-1,1'- methylenebis(4,1-phenylene) diurea; 3-cyclohexyl-1-(4-(4- (3-octadecylureido)benzyl) phenyl)urea; 3,3'- dioctadecyl-1,1'- methylenebis(4,1-phenylene)		Rat	5.1 mg/l	4 hours	-
diurea	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	1_
4,4'-methylene bis (dibutyldithiocarbamate)	LD50 Dermal	Rabbit	2000 mg/kg	-	-
,	LD50 Oral	Rat	16000 mg/kg	-	-
O,O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
	LD50 Dermal	Rat	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>2000 mg/kg	-	OECD 401
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Oral	Rat	>5000 mg/kg	-	-
	1	1	1	1	I

4-nonylphenol, branched

Conclusion/Summary

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

Rat

1300 mg/kg

#### **Acute toxicity estimates**

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture of: 3,3'-dicyclohexyl-1,1'-methylenebis (4,1-phenylene)diurea; 3-cyclohexyl-1-(4-(4-(3-octadecylureido)benzyl)phenyl)urea; 3,3'-dioctadecyl-1,1'-methylenebis(4,1-phenylene)diurea	N/A	N/A	N/A	20.1	5.1
4,4'-methylene bis(dibutyldithiocarbamate)	16000	N/A	N/A	N/A	N/A
O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate	N/A	N/A	N/A	20.1	5.1
4-nonylphenol, branched	1300	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

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** 

Conclusion/Summary :

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

Revision:2022/10/24 Version: 2 France ENGLISH 10/28



sps #: 30400

**Mutagenicity** 

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

**Carcinogenicity** 

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

Reproductive toxicity

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

**Aspiration hazard** 

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

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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 : No specific data.

Inhalation : 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

**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.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.Carcinogenicity : No known significant effects or critical hazards.

Revision:2022/10/24 Version: 2 France ENGLISH 11/28



SDS #: 30400

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 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**

Farmful to aquatic life with long lasting effects.

### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
mixture of: 3,3'- dicyclohexyl-1,1'- methylenebis(4,1-phenylene) diurea; 3-cyclohexyl-1-(4-(4- (3-octadecylureido)benzyl) phenyl)urea; 3,3'-dioctadecyl- 1,1'-methylenebis	Acute EC50 100 mg/l	Micro-organism	3 hours	-
(4,1-phenylene)diurea 4,4'-methylene bis (dibutyldithiocarbamate)	Acute EC50 1000 mg/l	Micro-organism	3 hours	-
O,O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate	Acute EC50 >100 mg/l	Algae	72 hours	OECD 201
	Acute EC50 >100 mg/l Acute LC50 >25 mg/l Chronic NOEC ≥10 mg/l	Micro-organism Fish Daphnia - Daphnia magna	3 hours 96 hours 21 days	OECD 209 - OECD 202
4-nonylphenol, branched	Acute EC50 0.03 mg/l Marine water	Algae - Skeletonema costatum	72 hours	-
	Acute EC50 0.027 mg/l Marine water	Algae - Skeletonema costatum	96 hours	-
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours	OECD
	Acute LC50 17 µg/l Marine water	Fish - Pleuronectes americanus - Larvae	96 hours	-
	Chronic EC10 0.012 mg/l Marine water	Algae - Skeletonema costatum	96 hours	-
	Chronic NOEC 5 µg/l Fresh water	Crustaceans - Gammarus fossarum - Adult	21 days	-
	Chronic NOEC 7.4 μg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days	-

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

Revision:2022/10/24 Version: 2 France ENGLISH 12/28



iEnergies sps #: 30400

Product/substance	Aquatic half-life	Photolysis	Biodegradability
mixture of: 3,3'-	-	-	Not readily
dicyclohexyl-1,1'-			
methylenebis(4,1-phenylene)			
diurea; 3-cyclohexyl-1-(4-(4-			
(3-octadecylureido)benzyl)			
phenyl)urea; 3,3'-			
dioctadecyl-1,1'-			
methylenebis(4,1-phenylene)			
diurea			
O,O,O-tris(2(or 4)-	-	-	Not readily
C9-10-isoalkylphenyl)			
phosphorothioate			
Benzenamine, N-phenyl-,	-	-	Not readily
reaction products with			
2,4,4-trimethylpentene			

#### 12.3 Bioaccumulative potential

Product/substance	LogK <sub>ow</sub>	BCF	Potential
	8.42	10.86	low
O,O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate	20	48	low
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	high
4-nonylphenol, branched	5.4	740	high

#### 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 has no 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 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.

Revision:2022/10/24 Version: 2 France ENGLISH 13/28



**SDS #**: 30400

## **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: 12 01 12\*

**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.	9005	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (O, O,O-tris(2(or 4)- C9-10-isoalkylphenyl) phosphorothioate, 4-nonylphenol, branched)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	<b>y</b> es.	No.	No.

#### **Additional information**

**ADN** 

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

Revision:2022/10/24 Version: 2 France ENGLISH 14/28



**SDS#:** 30400

14.6 Special precautions for

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

### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
✓ nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Endocrine disrupting properties for environment	Candidate	ED/169/2012	12/19/2012

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

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

#### **Other EU regulations**

₹ake 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** 

: Not listed

(integrated pollution

prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

**Persistent Organic Pollutants** 

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **National regulations**

Revision:2022/10/24 Version: 2 France **ENGLISH** 15/28



Mineral oil RG36 Synthetic oil RG36

Reinforced medical surveillance

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of occupational medicine: not applicable

Art R4412-1 to R4412-57 of the Labor Code relating to the provisions applicable to dangerous chemical agents.

**SDS#:** 

30400

#### **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) : Not determined.

Canada inventory (DSL/NDSL) : Not determined.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (EC) : MI components are listed or exempted.

Japan inventory : Japan inventory (CSCL): At least one component is not

listed.

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals (NZIoC) : Not determined.

Philippines inventory (PICCS) : Not determined.

Korea inventory (KECI) : Not determined.

Taiwan Chemical Substances Inventory (TCSI) : Not determined.

Thailand inventory : Not determined.

Turkey inventory : Not determined.

United States inventory (TSCA 8b) : Not determined.
Vietnam inventory : Not determined.

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.

Revision:2022/10/24 Version: 2 France ENGLISH 16/28



**SDS #**: 30400

15.2 Chemical Safety

**Assessment** 

: See exposure scenarios

### **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 [Regulation (EC) No.

1272/20081

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

<b>⊮</b> 302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the
	unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

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

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
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B

#### Additionnal details on the supplier of the product

Revision:2022/10/24 Version: 2 France ENGLISH 17/28



**SDS #**: 30400

TotalEnergies Marketing Caraïbes

ZI. Californie 97232 Le Lamentin Martinique France

Tel: +596 596 504 957

TotalEnergies Marketing Mayotte

Immeuble Jacaranda 1, Lotissement Les 3 vallées Majicavo Lamir

BP 867 kawéni

97600 MAMOUDZOU tél: +262 (0) 269 60 12 94 fax: +262 (0) 269 60 17 30

TotalEnergies Marketing Réunion

3 rue Jacques Prévert BP286 – 97827 LE PORT tél: +262 (0) 262 55 20 20 fax: +262 (0) 262 55 20 31

Date of revision : 2022/10/24 Date of previous revision : 2022/02/11

Version : 2

#### **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.

Revision:2022/10/24 Version: 2 France ENGLISH 18/28

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

Industrial

19/28

#### Identification of the substance or mixture

Product definition : Mixture

Code : 30400

Product name : ALTIS SH 2

Section 1 - Title

Short title of the exposure

scenario

: Use of lubricants and greases in open systems - Industrial

List of use descriptors : Identified use name: Use of lubricants and greases in open systems - Industrial Process Category: PROC01, PROC02, PROC07, PROC08b, PROC09, PROC10,

PROC13

Sector of end use: SU03

Subsequent service life relevant for that use: No.

**Environmental Release Category: ERC04** 

**Environmental contributing**:

scenarios

**Health Contributing** 

**Processes and activities** 

covered by the exposure

scenarios

scenario

Covers use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mold releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities

### Section 2 - Exposure controls

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

ATIEL-ATC SPERC 4.Ci.v1

Amounts used : Volume manufactured/imported (tonnes/year) : 3.81E+02

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): 4.00E-11

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.

Organizational measures to prevent/limit release from

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

Date of issue/Date of revision : 4/6/2020

## Use of lubricants and greases in open systems

**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 (Msafe) based on release following total wastewater

treatment removal (kg/day): 549 647

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.

: Not available.

**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	<ul> <li>required. For further information see www.atiel.org/reach/introduction.</li> <li>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.</li> </ul>

### Additional good practice advice beyond the REACH CSA

**Environment** : Not available. Health : Not available.

Date of issue/Date of revision: 4/6/2020 20/28

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

Industrial

#### Identification of the substance or mixture

Product definition : Mixture

Code : 30400

Product name : ALTIS SH 2

Section 1 - Title

Short title of the exposure

scenario

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

List of use descriptors : Identified use name: 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): 5.00E-05

Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 4.00E-11

(Intrincipal) sewage treatment plants. 4.00=11

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.

Date of issue/Date of revision : 4/3/2020

## 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<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 3 797 024

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: 4/3/2020 22/28

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

**Professional** 

#### Identification of the substance or mixture

**Product definition** : Mixture : 30400 Code : ALTIS SH 2 **Product name** 

Section 1 - Title

Short title of the exposure

scenario

: Use of lubricants and greases in open systems - Professional

List of use descriptors : Identified use name: Use of lubricants and greases in open systems - Professional Process Category: PROC01, PROC02, PROC08a, PROC10, PROC11, PROC13

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d

**Environmental contributing**:

scenarios

**Health Contributing** 

**Processes and activities** 

covered by the exposure

scenarios

scenario

: Covers use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without

exposure to heat), e.g. mold releases, corrosion protection, slideways, Includes associated product storage, material transfers, sampling and maintenance activities.

## **Section 2 - Exposure controls**

Contributing scenario controlling environmental exposure for 1:

ATIEL-ATC SPERC 8.Cp.v1

**Amounts used** : Volume manufactured/imported (tonnes/year) : 2.24E+02

Fraction of EU tonnage used in region: 0.1

Fraction of regional tonnage used locally: 0.1

Frequency and duration of

use

site

: 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.

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

**Technical on-site** conditions and measures to reduce or limit discharges, air emissions and releases to soil

prevent/limit release from

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

Date of issue/Date of revision: 4/6/2020

#### Use of lubricants and greases in open systems - 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<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 3 508

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.

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

Industrial

#### Identification of the substance or mixture

Product definition : Mixture

Code : 30400

Product name : ALTIS SH 2

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 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): 5.00E-05

Release fraction to wastewater from process (after typical onsite RMMs and before

(municipal) sewage treatment plant): 4.00E-11

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.

Organizational 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: 4/3/2020

## Formulation additives, lubricants and greases

**Conditions and measures** related to sewage treatment plant

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

Assumed domestic sewage treatment plant flow (m<sup>3</sup>/d): 2.00E+03 Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 14 430 773

**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: 4/3/2020 26/28

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

**Professional** 

#### Identification of the substance or mixture

Product definition : Mixture

Code : 30400

Product name : ALTIS SH 2

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** 

covered by the exposure

scenarios
Processes and activities

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.

Organizational 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 : 4/6/2020

#### 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 (%):

Assumed domestic sewage treatment plant flow (m<sup>3</sup>/d): 2.00E+03

Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 9 555

**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.