#### SAFETY DATA SHEET



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

**AEROGEAR 823** 

**SDS no.** 34190

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

1.1 Product identifier

Product name : ÆROGEAR 823

Product code : 34190

**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**

Not applicable.

#### Uses advised against

Not applicable.

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

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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

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**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.

Ingredients of unknown

: Contains 48.2% of components with unknown hazards to the aquatic environment

ecotoxicity

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 : Mot applicable.

Storage : Mot applicable.

**Disposal** : ₱501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label elements

: Contains 1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-. May produce an allergic reaction.

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

: Not applicable.

2.3 Other hazards

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 %.

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.

Other hazards which do not result in classification

: Hazard of slipping on spilt product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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

Product/ingredient name	Identifiers	%	Classification	Type
<b>2</b> ,6-di-tert-butylphenol	REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2	≤0.3	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
1,3,4-Thiadiazole-2(3H)-thione, 5- (tert-dodecyldithio)-	REACH #: 01-2120761104-64 EC: 813-543-0 CAS: 73984-93-7	≤0.3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
C16-18-(even numbered, saturated and unsaturated)-alkylamines	REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) See Section 16 for the full text of the H statements declared	[1]

#### **Additional information**

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

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

#### **Type**

Substance classified with a health or environmental hazard

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eve 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.

Skin contact

: Wash skin thoroughly with soap and water or use recognised skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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

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:

#### **SECTION 4: First aid measures**

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:

dryness cracking

Ingestion : No specific data.

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

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

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

**Unsuitable extinguishing** 

media

: Do not use water jet.

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

Hazards from the substance or mixture

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

: varbon monoxide carbon dioxide Silicon Dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Fromptly 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.

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#### 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: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Kvoid 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.

### **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

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### SECTION 7: Handling and storage

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

#### 7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific** : 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 appropriate monitoring standards. 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
2,6-di-tert-butylphenol	DNEL	Long term Oral	6.75 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 11.25 mg/ kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	20.9 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	70.61 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	6.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	6.75 mg/ kg bw/day	General population	Systemic
1,3,4-Thiadiazole-2(3H)-thione, 5- (tert-dodecyldithio)-	DNEL	Long term Dermal	830 µg/kg bw/day	Workers	Systemic
(	DNEL	Long term Inhalation	2.93 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	420 μg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	420 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	730 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.42 mg/	General	Systemic

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## SECTION 8: Exposure controls/personal protection

<u> </u>					
	DNEL	Long term Dermal	kg bw/day 0.42 mg/	population General	Systemic
	DINEL	Long term Dermai	kg bw/day	population	Systemic
	DNEL	Long term	0.73 mg/m <sup>3</sup>		Systemic
		Inhalation	J	population	,
	DNEL	Long term Dermal	0.83 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	2.93 mg/m <sup>3</sup>	Workers	Systemic
C16 19 (over numbered seturated	DNEI	Inhalation	40 ug/kg	General	Systemia
C16-18-(even numbered, saturated and unsaturated)-alkylamines	DNEL	Long term Oral	40 μg/kg bw/day	population	Systemic
and unsaturated) untylamines	DNEL	Long term	0.38 mg/m <sup>3</sup>		Systemic
	51122	Inhalation	0.00 mg/m	TT GINGIG	
	DNEL	Long term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	1 mg/m³	Workers	Local
	5.15	Inhalation			
	DNEL	Long term	0.035 mg/	General	Systemic
	DNEL	Inhalation	m³ 0.09 mg/	population Workers	Systemic
	DINEL	Long term Dermal	kg bw/day	VVOIKEIS	Systemic
	DNEL	Long term Dermal	0.06 %	Workers	Local
	DNEL	Long term	0.035 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Short term	1 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	1 mg/m³	Workers	Local
		Inhalation			

### **PNECs**

Product/substance	Compartment Detail	Value	Method Detail
<b>2</b> ,6-di-tert-butylphenol	Fresh water	700 ng/l	-
• •	Marine water	70 ng/l	-
	Fresh water sediment	317 µg/kg dwt	-
	Marine water sediment	31.7 µg/kg dwt	-
	Soil	697 µg/kg dwt	-
	Sewage Treatment Plant	10 mg/l	-
	Secondary Poisoning	60 mg/kg	-
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert- dodecyldithio)-	Fresh water	40 μg/l	-
,	Marine water	4 μg/l	-
	Fresh water sediment	989.6 mg/kg dwt	-
	Marine water sediment	98.96 mg/kg dwt	-
	Soil	516.08 mg/kg dwt	-
	Sewage Treatment Plant	8000 mg/l	-
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Marine water	0.000026 mg/l	-
, •	Fresh water sediment	3.76 mg/kg dwt	-
	Marine water sediment	0.376 mg/kg dwt	-
	Soil	10 mg/kg	-
	Sewage Treatment Plant	0.55 mg/l	-

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### **SECTION 8: Exposure controls/personal protection**

#### 8.2 Exposure controls

Appropriate engineering controls

: Cood 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 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.

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

Expropriate 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.

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### SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid. [Clear]

Colour : Yellow.

Odour : Characteristic.
Odour threshold : Not available.

Initial boiling point and

boiling range

: >316°C (>600.8°F) [ISO 3405]

Flammability (solid, gas) : Not applicable.

Upper/lower flammability or explosive limits : Lower: 0.9%

Upper: 7%

Upper: 7%

Flash point : Open cup: 242°C (467.6°F) [Cleveland Open Cup (COC)]

Auto-ignition temperature : ▶242°C (>467.6°F) [ASTM E 659]

**Decomposition temperature** : Not applicable.

pH : Not applicable. Product is non-soluble (in water).

Viscosity : Kinematic (40°C): 63 mm²/s [ISO 3104]

Solubility(ies)

Media	Result
water	Not soluble

Miscible with water :  $\overline{N}$ o.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : ₹0.013 kPa (<0.1 mm Hg) [room temperature]

Not applicable. [50°C (122°F)]

Relative density : 0.888 [ISO 3675]

**Density** : 0.888 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

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** : **☑**nder normal conditions of storage and use, hazardous reactions will not occur.

hazardous reactions

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### **SECTION 10: Stability and reactivity**

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 Silicon Dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

### **SECTION 11: Toxicological information**

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

Product/substance	Result	Species	Dose	Exposure	Test
2,6-di-tert-butylphenol	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female	Single dose		401
1,3,4-Thiadiazole-2(3H)-	LC50 Inhalation Dusts	Rat	620 mg/m <sup>3</sup>	4 hours	-
thione, 5-(tert-dodecyldithio)-	and mists		_		
	LD50 Dermal	Rabbit	2000 mg/kg	-	-
	LD50 Oral	Rat	6176 mg/kg	-	-
C16-18-(even numbered, saturated and unsaturated)-alkylamines	LC50 Inhalation Dusts and mists	Rat - Male	>0.099 mg/l	1 hours	OECD
antylaninios	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male, Female	1689 mg/kg	-	OECD 401

**Conclusion/Summary** 

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

#### **Acute toxicity estimates**

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
7,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	6176	N/A	N/A	N/A	N/A
C16-18-(even numbered, saturated and unsaturated)-alkylamines	1689	N/A	N/A	N/A	N/A

**Irritation/Corrosion** 

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## **SECTION 11: Toxicological information**

Product/substance	Result	Species	Score	Exposure	Test
2,6-di-tert-butylphenol	Eyes - Cornea opacity	Rabbit	0	-	OECD 405 405
	Skin - Moderate irritant	Rat	-	4 hours 0.5 MI	OECD 404 404
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Eyes - Severe irritant	Rabbit	-	-	OECD 405
	Skin - Visible necrosis	Rabbit	-	_	OECD 404

**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.

#### **Sensitisation**

Product/substance	Route of exposure	Species	Result
2,6-di-tert-butylphenol C16-18-(even numbered, saturated and unsaturated)- alkylamines	skin skin	Guinea pig Guinea pig	Not sensitizing Not sensitizing

**Conclusion/Summary** 

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

May produce an allergic reaction.

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

#### **Mutagenicity**

Product/substance	Test	Experiment	Result
2,6-di-tert-butylphenol	OECD 471 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 471	Experiment: In vitro Subject: Bacteria	Negative

**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

Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
	•	0	,	_	-
1	toxicity	toxicity Negative	toxicity toxin  Negative Negative	toxicity toxin  Negative Negative Rat - Male, Female	toxicity toxin  Negative Negative Rat - Male, Female Oral

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

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## **SECTION 11: Toxicological information**

#### **Teratogenicity**

Product/substance	Result	Species	Dose	Exposure
16-18-(even numbered, saturated and unsaturated)- alkylamines	Negative - Oral		>30 mg/kg NOAEL	-

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

#### Specific target organ toxicity (single exposure)

Product/substance	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 3		Respiratory tract irritation

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

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

Product/substance	Category	Route of exposure	Target organs
☑16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 2	-	-

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

#### **Aspiration hazard**

Product/substance	Result
☑16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1

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

Information on likely routes :

of exposure

: Not available.

#### Potential acute health effects

Eye contact
Inhalation
Mo known significant effects or critical hazards.
Mo 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 as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

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### **SECTION 11: Toxicological information**

**Potential delayed effects** 

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
₹,6-di-tert-butylphenol	Sub-chronic NOAEL Oral	Rat - Male, Female	100 mg/kg NOAEL	days
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Sub-acute LOAEL Dermal	Rat - Male, Female	12.5 mg/kg	-
	Sub-acute NOAEL Oral	Rat - Male, Female	3.25 mg/kg	-

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This product 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
2,6-di-tert-butylphenol	Acute EC50 1.2 mg/l	Algae	72 hours	-
	Acute EC50 0.45 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 1 mg/l	Fish	96 hours	-
	Chronic NOEC 0.035 mg/l	Daphnia - Daphnia magna	21 days	-
	Chronic NOEC 0.3 mg/l	Fish	28 days	-
1,3,4-Thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	Acute EC10 100 mg/l	Algae	72 hours	-
,	Acute EC50 100 mg/l	Algae	72 hours	-
	Acute EC50 41 mg/l	Daphnia	48 hours	-
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Acute EL50 0.04 mg/l	Algae - Selenastrum capricornutum	72 hours	-
	Acute EL50 0.011 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute EL50 222.5 mg/l	Micro-organism	3 hours	-
	Acute LL50 0.06 mg/l	Fish - Pimephales promelas	96 hours	-
	Chronic NOEL 0.013 mg/l	Daphnia - Daphnia magna	21 days	-

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### **SECTION 12: Ecological information**

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
	OECD 301B Ready Biodegradability - CO2 Evolution Test	66 % - Readily - 20 days	-	-

**Conclusion/Summary**: Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
2,6-di-tert-butylphenol C16-18-(even numbered, saturated and unsaturated)- alkylamines	-		Not readily Readily

#### 12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
2,6-di-tert-butylphenol	4.48	660	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 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.

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### **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.

## **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. (2,6-di-tert- butylphenol, C16-18- (even numbered, saturated and unsaturated)- alkylamines)	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

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### **SECTION 14: Transport information**

**Additional information** 

**ADN** 

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

user

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 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** 

Not listed.

**Annex XVII - Restrictions** 

on the manufacture,

placing on the market

and use of certain

dangerous substances,

mixtures and articles

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**EU regulations** 

**Industrial emissions** 

: Not listed

: Not applicable.

(integrated pollution prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

**International regulations** 

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### SECTION 15: Regulatory information

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)** : All components are listed or exempted. Canada inventory : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. : MI components are listed or exempted. **Europe inventory** 

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

: Not determined.

Japan inventory (ISHL): Not determined.

: All 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.

**Taiwan Chemical Substances Inventory** 

(TCSI)

: Not determined. Thailand inventory **Turkey inventory** : Not determined.

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

Vietnam inventory : Not determined.

The information stated in this section relates 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 [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

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### **SECTION 16: Other information**

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

<b>⊮</b> 302	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.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.

#### **Full text of classifications**

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 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
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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#### **Notice to reader**

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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.

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