Fine Compound
R913

Date of compilation: 20/04/2023 Revised: 19/08/2024 Version: 2 (Replaced 1)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Fine Compound
R913

Other means of identification:

FGC001/01

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

Relevant uses (Consumer use): Automotive applications; abrasive cleaners; cutting oil
Relevant uses (Professional users): Automotive applications; abrasive cleaners; cutting oil
Relevant uses (Industrial user): Automotive applications; abrasive cleaners; cutting oil
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Nielsen Chemicals
Rawdon Road, Moira
DE12 6DA Swadlincote - Derbyshire - United Kingdom
Phone: 01283 222277
info@nielsenchemicals.com
www.nielsenchemicals.com

Represented By:
Authorised Rep Compliance Representing Reabrook Ltd
Ground Floor
Lower Baggot Street
Dublin
D02 P593
Ireland
www.authorisedrepcompliance.com

1.4 Emergency telephone number: For 24/7 multilingual advice for spill, leak, fire, exposure, or accident Call CHEMTREC at +44 20 3885 0382 / +44 20 3807 3798 and provide CCN 1018675; NPIS: 0344 892 0111 (healthcare professionals only) or NHS 111.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):
Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).
Eye Irrit. 2: Eye irritation, Category 2, H319

2.2 Label elements:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Warning

Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P264: Wash thoroughly after use.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.
EUH208: Contains Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

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SECTION 2: HAZARDS IDENTIFICATION (continued)

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not available

3.2 Mixture:

Chemical description: Aqueous mixture composed of abrasives, emulsions and solvents

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 64742-47-8 EC: 265-149-8 REACH: 01-2119484819-18-XXXX	**Distillates (petroleum), hydrotreated light** Asp. Tox. 1: H304; EUH066 - Danger	**25 - <50 %**
CAS: 1344-28-1 EC: 215-691-6 REACH: 01-2119817795-27-XXXX	**Aluminum Oxide**	**3 - <10 %**
CAS: 56-81-5 EC: 200-289-5 REACH: 01-2119471987-18-XXXX	**Glycerol**	**3 - <10 %**
CAS: 69011-36-5 EC: 500-241-6 REACH: 01-2119976362-32-XXXX	**Isotridecanol, ethoxylated (5 mol EO)** Aquatic Chronic 3: H412; Eye Dam. 1: H318 - Danger	**1 - <3 %**
CAS: 141-43-5 EC: 205-483-3 REACH: 01-2119486455-28-XXXX	**2-aminoethanol** Acute Tox. 4: H302+H312+H332; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	**<1 %**
CAS: 55965-84-9 EC: Not available	**Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)** Acute Tox. 2: H310+H330; Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1C: H314; Skin Sens. 1A: H317; EUH071 - Danger	**<1 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	LD50 oral	1515 mg/kg	Rat
	LD50 dermal	2504 mg/kg	Rabbit
	LC50 inhalation vapour	11 mg/L	
Isotridecanol, ethoxylated (5 mol EO) CAS: 69011-36-5 EC: 500-241-6	LD50 oral	10000 mg/kg	Rat
	LD50 dermal	Not available	
	LC50 inhalation vapour	Not available	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not available	LD50 oral	64 mg/kg	Rat
	LD50 dermal	87.12 mg/kg	Rabbit
	LC50 inhalation vapour	1.433 mg/L *	

* Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

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SECTION 4: FIRST AID MEASURES (continued)

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

It is recommended to avoid environmental spillage of both the product and its container.

6.3 Methods and material for containment and cleaning up:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 4 ºC

Maximum Temp.: 40 ºC

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
Aluminum Oxide	WEL (8h)		4 mg/m³
CAS: 1344-28-1	WEL (15 min)		
Glycerol	WEL (8h)		10 mg/m³
CAS: 56-81-5	WEL (15 min)		
2-aminoethanol (1)	WEL (8h)	1 ppm	2.5 mg/m³
CAS: 141-43-5	WEL (15 min)	3 ppm	7.6 mg/m³

(1) Skin

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Aluminum Oxide	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1344-28-1	Dermal	Not relevant	Not relevant	0.84 mg/kg	Not relevant
EC: 215-691-6	Inhalation	Not relevant	Not relevant	3 mg/m³	3 mg/m³
Glycerol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 56-81-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-289-5	Inhalation	Not relevant	Not relevant	Not relevant	56 mg/m³
Isotridecanol, ethoxylated (5 mol EO)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 69011-36-5	Dermal	Not relevant	Not relevant	2080 mg/kg	Not relevant
EC: 500-241-6	Inhalation	Not relevant	Not relevant	294 mg/m³	Not relevant
2-aminoethanol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 141-43-5	Dermal	Not relevant	Not relevant	3 mg/kg	Not relevant
EC: 205-483-3	Inhalation	Not relevant	Not relevant	1 mg/m³	0.51 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Aluminum Oxide	Oral	Not relevant	Not relevant	1.32 mg/kg	Not relevant
CAS: 1344-28-1	Dermal	Not relevant	Not relevant	0.3 mg/kg	Not relevant
EC: 215-691-6	Inhalation	Not relevant	Not relevant	0.75 mg/m³	0.75 mg/m³
Glycerol	Oral	Not relevant	Not relevant	229 mg/kg	Not relevant
CAS: 56-81-5	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-289-5	Inhalation	Not relevant	Not relevant	Not relevant	33 mg/m³
Isotridecanol, ethoxylated (5 mol EO)	Oral	Not relevant	Not relevant	25 mg/kg	Not relevant
CAS: 69011-36-5	Dermal	Not relevant	Not relevant	1250 mg/kg	Not relevant
EC: 500-241-6	Inhalation	Not relevant	Not relevant	87 mg/m³	Not relevant
2-aminoethanol	Oral	Not relevant	Not relevant	1.5 mg/kg	Not relevant
CAS: 141-43-5	Dermal	Not relevant	Not relevant	1.5 mg/kg	Not relevant
EC: 205-483-3	Inhalation	Not relevant	Not relevant	0.18 mg/m³	0.28 mg/m³

PNEC:

Identification				
Glycerol	STP	1000 mg/L	Fresh water	0.885 mg/L
CAS: 56-81-5	Soil	0.141 mg/kg	Marine water	0.088 mg/L
EC: 200-289-5	Intermittent	8.85 mg/L	Sediment (Fresh water)	3.3 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.33 mg/kg
Isotridecanol, ethoxylated (5 mol EO)	STP	1.4 mg/L	Fresh water	0.074 mg/L
CAS: 69011-36-5	Soil	0.1 mg/kg	Marine water	0.007 mg/L
EC: 500-241-6	Intermittent	0.015 mg/L	Sediment (Fresh water)	0.604 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.06 mg/kg
2-aminoethanol	STP	100 mg/L	Fresh water	0.07 mg/L
CAS: 141-43-5	Soil	1.29 mg/kg	Marine water	0.007 mg/L
EC: 205-483-3	Intermittent	0.028 mg/L	Sediment (Fresh water)	0.357 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.036 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
 Compulsory use of face mask	Filter mask for particles (Filter type: AP)	Replace when an increase in resistence to breathing is observed.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Splashing)	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Emulsion
Colour:	White
Odour:	Hydrocarbon
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	128 ºC (ASTM D 1120-72)
Vapour pressure at 20 ºC:	2209 Pa
Vapour pressure at 50 ºC:	11638.2 Pa (11.64 kPa)

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Evaporation rate at 20 ºC:	Not relevant *
Product description:	
Density at 20 ºC:	Not relevant *
Relative density at 25 ºC:	1.031 - 1.051
Dynamic viscosity at 25 ºC:	30000 - 50000 mPa·s
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	>20.5 mm^2/s
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Emulsifiable
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	Non Flammable (>60 ºC)
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	250 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:	
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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SECTION 10: STABILITY AND REACTIVITY (continued)

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Distillates (petroleum), hydrotreated light CAS: 64742-47-8 EC: 265-149-8	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Isotridecanol, ethoxylated (5 mol EO) CAS: 69011-36-5 EC: 500-241-6	LD50 oral	10000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Aluminum Oxide CAS: 1344-28-1 EC: 215-691-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Glycerol CAS: 56-81-5 EC: 200-289-5	LD50 oral	27200 mg/kg	Rat
	LD50 dermal	56750 mg/kg	Guinean pig
	LC50 inhalation vapour	>20 mg/L	
2-aminoethanol CAS: 141-43-5 EC: 205-483-3	LD50 oral	1515 mg/kg	Rat
	LD50 dermal	2504 mg/kg	Rabbit
	LC50 inhalation vapour	11 mg/L	
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9 EC: Not relevant	LD50 oral	64 mg/kg	Rat
	LD50 dermal	87.12 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Glycerol CAS: 56-81-5	LC50	54000 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	1955 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
Isotridecanol, ethoxylated (5 mol EO) CAS: 69011-36-5	LC50	>10 - 100 mg/L (96 h)		Fish
	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
2-aminoethanol CAS: 141-43-5	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS: 55965-84-9	LC50	>0.001 - 0.01 mg/L (96 h)		Fish
	EC50	>0.001 - 0.01 mg/L (48 h)		Crustacean
	EC50	>0.001 - 0.01 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
2-aminoethanol	NOEC	1.24 mg/L	Oryzias latipes	Fish
CAS: 141-43-5	NOEC	0.85 mg/L	Daphnia magna	Crustacean
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	NOEC	>0.001 - 0.01 mg/L		Fish
CAS: 55965-84-9	NOEC	>0.001 - 0.01 mg/L		Crustacean

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Glycerol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 56-81-5	COD	Not relevant	Period	14 days
EC: 200-289-5	BOD5/COD	Not relevant	% Biodegradable	63 %
2-aminoethanol	BOD5	Not relevant	Concentration	20 mg/L
CAS: 141-43-5	COD	Not relevant	Period	21 days
EC: 205-483-3	BOD5/COD	Not relevant	% Biodegradable	90 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Distillates (petroleum), hydrotreated light	BCF	130
CAS: 64742-47-8	Pow Log	3.3
EC: 265-149-8	Potential	High
Glycerol	BCF	3
CAS: 56-81-5	Pow Log	-1.76
EC: 200-289-5	Potential	Low
Isotridecanol, ethoxylated (5 mol EO)	BCF	
CAS: 69011-36-5	Pow Log	4.73
EC: 500-241-6	Potential	
2-aminoethanol	BCF	3
CAS: 141-43-5	Pow Log	-1.31
EC: 205-483-3	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Glycerol	Koc	Not relevant	Henry	Not relevant
CAS: 56-81-5	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	6.516E-2 N/m (25 ºC)	Moist soil	Not relevant
Isotridecanol, ethoxylated (5 mol EO)	Koc	441.7	Henry	Not relevant
CAS: 69011-36-5	Conclusion	Moderate	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2-aminoethanol	Koc	0.27	Henry	3.7E-5 Pa·m^3/mol
CAS: 141-43-5	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	5.025E-2 N/m (25 ºC)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non-hazardous

Type of waste:

Not available

Waste management (disposal and evaluation):

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Acute Tox. 2: H310+H330 - Fatal in contact with skin or if inhaled.
Acute Tox. 3: H301 - Toxic if swallowed.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Eye Irrit. 2: Calculation method

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SECTION 16: OTHER INFORMATION (continued)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

- END OF SAFETY DATA SHEET -