

## 08548 Lineout

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

**1.1 Product identifier:** 08548 Lineout

Other means of identification:

Non-applicable

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

Relevant uses: Agricultural taggant. For professional users/industrial user only.

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:

Origin Amenity Solutions LTD 1 – 3 Freeman Court, Jarman Way

SG8 5HW Royston - Hertfordshire - United Kingdom Phone: +44(0)800 1387222 - Fax: 01204 677715

sds@originamenity.com www.originamenity.com

**1.4** Emergency telephone number: +44(0)800 1387222

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

#### **GB CLP Regulation:**

Classification of this product has been carried out in accordance with GB CLP Regulation.

Acute Tox. 4: Acute toxicity, Category 4, H302+H332

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin irritation, Category 2, H315

## 2.2 Label elements:

# **GB CLP Regulation:**

#### Danger





## **Hazard statements:**

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

# **Precautionary statements:**

P264: Wash thoroughly after use.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

#### Substances that contribute to the classification

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (CAS: 85586-07-8); 2-butoxyethanol (CAS: 111-76-2); Amines, C12-18-alkyldimethyl, N-oxides (CAS: 68955-55-5); tetrasodium ethylene diamine tetraacetate (CAS: 64-02-8)

## 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

## 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Mixture of substances

**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:	85586-07-8	<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts</b> Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	20 - <30 %
CAS:	111-76-2	<b>2-butoxyethanol</b> Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Danger	10 - <20 %
CAS:	68955-55-5	Amines, C12-18-alkyldimethyl, N-oxides  Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	5 - <10 %
CAS:	64-02-8	tetrasodium ethylene diamine tetraacetate Acute Tox. 4: H302+H332; Eye Dam. 1: H318; STOT RE 2: H373 - Danger	5 - <10 %
CAS:	61788-93-0	Amines, coco alkyldimethyl Acute Tox. 4: H302; Aquatic Acute 1: H400; Skin Corr. 1B: H314 - Danger	0.1 - <0.3 %
CAS:	52-51-7	bronopol (INN) Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	0.01 - <0.1 %

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

#### Other information:

Identification	M-factor	
bronopol (INN)	Acute	10
CAS: 52-51-7	Chronic	1

Identification	Specific concentration limit
	% (w/w) >=20: Eye Dam. 1 - H318 10<= % (w/w) <20: Eye Irrit. 2 - H319

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	Acut	Genus	
tetrasodium ethylene diamine tetraacetate	LD50 oral	Non-applicable	
CAS: 64-02-8	LD50 dermal	Non-applicable	
	LC50 inhalation	11 mg/L (ATEi)	

# **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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

#### 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:

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## SECTION 4: FIRST AID MEASURES (continued)

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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

## 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:

Non-applicable

## 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 (SCBA). 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:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

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# SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

## 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 2 °C

Maximum Temp.: 40 °C

Maximum time: 24 Months

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 monitored in the workplace:

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

Identification		Occupational exposure limits			
2-butoxyethanol			WEL (8h)	25 ppm	123 mg/m <sup>3</sup>
CAS: 111-76-2			WEL (15 min)	50 ppm	246 mg/m <sup>3</sup>
Propane-1,2-diol			WEL (8h)	150 ppm	474 mg/m <sup>3</sup>
CAS: 57-55-6			WEL (15 min)		
Acetic acid			WEL (8h)	10 ppm	25 mg/m <sup>3</sup>
CAS: 64-19-7			WEL (15 min)	20 ppm	50 mg/m <sup>3</sup>

## **Biological limit values:**

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVS) - EH40/2005

Identification	NULL	NULL	NULL
2-butoxyethanol CAS: 111-76-2	280 mg/g (NULL)	Butoxyacetic acid in urine	Post shift

# **DNEL (Workers):**



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification	Systemic	Local	Systemic	Local	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 85586-07-8	Dermal	Non-applicable	Non-applicable	4060 mg/kg	Non-applicable
EC: 287-809-4	Inhalation	Non-applicable	Non-applicable	285 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	125 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	1091 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable
Amines, C12-18-alkyldimethyl, N-oxides	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68955-55-5	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
EC: 931-341-1	Inhalation	Non-applicable	Non-applicable	6.2 mg/m <sup>3</sup>	Non-applicable
tetrasodium ethylene diamine tetraacetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-02-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-573-9	Inhalation	Non-applicable	3 mg/m <sup>3</sup>	Non-applicable	1.5 mg/m <sup>3</sup>
bronopol (INN)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 52-51-7	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
EC: 200-143-0	Inhalation	Non-applicable	Non-applicable	3.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>

# **DNEL (General population):**

		Short exposure		Long exposure	
Identification	Systemic	Local	Systemic	Local	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Oral	Non-applicable	Non-applicable	24 mg/kg	Non-applicable
CAS: 85586-07-8	Dermal	Non-applicable	Non-applicable	2440 mg/kg	Non-applicable
EC: 287-809-4	Inhalation	Non-applicable	Non-applicable	85 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	Non-applicable	Non-applicable	6.3 mg/kg	Non-applicable
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	426 mg/m <sup>3</sup>	147 mg/m <sup>3</sup>	59 mg/m <sup>3</sup>	Non-applicable
Amines, C12-18-alkyldimethyl, N-oxides	Oral	Non-applicable	Non-applicable	0.44 mg/kg	Non-applicable
CAS: 68955-55-5	Dermal	Non-applicable	Non-applicable	5.5 mg/kg	Non-applicable
EC: 931-341-1	Inhalation	Non-applicable	Non-applicable	1.53 mg/m <sup>3</sup>	Non-applicable
tetrasodium ethylene diamine tetraacetate	Oral	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
CAS: 64-02-8	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-573-9	Inhalation	Non-applicable	1.2 mg/m <sup>3</sup>	Non-applicable	0.6 mg/m <sup>3</sup>
bronopol (INN)	Oral	0.5 mg/kg	Non-applicable	0.18 mg/kg	Non-applicable
CAS: 52-51-7	Dermal	Non-applicable	Non-applicable	0.7 mg/kg	Non-applicable
EC: 200-143-0	Inhalation	Non-applicable	Non-applicable	0.6 mg/m <sup>3</sup>	Non-applicable

# PNEC:

Identification				
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	STP	1.35 mg/L	Fresh water	0.131 mg/L
CAS: 85586-07-8	Soil	0.846 mg/kg	Marine water	0.013 mg/L
EC: 287-809-4	Intermittent	0.036 mg/L	Sediment (Fresh water)	4.61 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.461 mg/kg
2-butoxyethanol	STP	463 mg/L	Fresh water	8.8 mg/L
CAS: 111-76-2	Soil	2.33 mg/kg	Marine water	0.88 mg/L
EC: 203-905-0	Intermittent	26.4 mg/L	Sediment (Fresh water)	34.6 mg/kg
	Oral	0.02 g/kg	Sediment (Marine water)	3.46 mg/kg
Amines, C12-18-alkyldimethyl, N-oxides	STP	24 mg/L	Fresh water	0.034 mg/L
CAS: 68955-55-5	Soil	1.02 mg/kg	Marine water	0.003 mg/L
EC: 931-341-1	Intermittent	0.034 mg/L	Sediment (Fresh water)	5.24 mg/kg
	Oral	0.0111 g/kg	Sediment (Marine water)	0.524 mg/kg

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
tetrasodium ethylene diamine tetraacetate	STP	43 mg/L	Fresh water	2.2 mg/L
CAS: 64-02-8	Soil	0.72 mg/kg	Marine water	0.22 mg/L
EC: 200-573-9	Intermittent	1.2 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
bronopol (INN)	STP	0.43 mg/L	Fresh water	0.01 mg/L
CAS: 52-51-7	Soil	0.5 mg/kg	Marine water	0.001 mg/L
EC: 200-143-0	Intermittent	0.003 mg/L	Sediment (Fresh water)	0.041 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.003 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>>. 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

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

## C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	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 20345:2012 y EN 13832-1:2007

## F.- Additional emergency measures

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Emergency measure	Standards	Emergency measure	Standards
<b>*</b>	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>← ()</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 17.5 % weight

V.O.C. density at 20 °C: 180.6 kg/m³ (180.6 g/L)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid

Appearance: Colorless

Colour: Colourless

Odour: Solvent

Odour threshold: Non-applicable \*

Volatility:

Boiling point at atmospheric pressure:

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Non-applicable \*

Non-applicable \*

Evaporation rate at 20 °C:

Non-applicable \*

**Product description:** 

Density at 20 °C: 1022 - 1042 kg/m³ (ISO 649-2)

Relative density at 20 °C: 1.022 - 1.042 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: Non-applicable \* Concentration: Non-applicable \* pH: 10.5 - 11.5 Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Miscible Decomposition temperature: Non-applicable \*

Melting point/freezing point: Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas):

Autoignition temperature:

Non-applicable \*

Non-applicable \*

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

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Non-applicable \*

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Lower flammability limit: Non-applicable \*
Upper flammability limit: Non-applicable \*

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable \*

Non-applicable \*

Non-applicable \*

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

Non-applicable \*

\*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:

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<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects:

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### **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):

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - 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.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces serious 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.

    IARC: 2-butoxyethanol (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, as it does not contain substances classified as hazardous for this effect. 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. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Skin: 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.
- H- Aspiration hazard:

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.

# Other information:

Non-applicable

## Product-specific toxicological information:

Acute toxicity		Genus
LD50 oral	1830 mg/kg	Rat

# Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-butoxyethanol	LD50 oral	470 mg/kg	Rat
CAS: 111-76-2	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	3 mg/L (4 h)	Rat
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	LD50 oral	1800 mg/kg	Rat
CAS: 85586-07-8	LD50 dermal	>2000 mg/kg	Rat
	LC50 inhalation	>5 mg/L	
tetrasodium ethylene diamine tetraacetate	LD50 oral	1913 mg/kg	Rat
CAS: 64-02-8	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	

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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Ac	Acute toxicity	
Amines, C12-18-alkyldimethyl, N-oxides	LD50 oral	1236 mg/kg	Rat
CAS: 68955-55-5	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Amines, coco alkyldimethyl	LD50 oral	>5000 mg/kg	
CAS: 61788-93-0	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
bronopol (INN)	LD50 oral	500 mg/kg	Rat
CAS: 52-51-7	LD50 dermal	1600 mg/kg	Rabbit
	LC50 inhalation	>5 mg/L	

# Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity		
Dermal >5000 mg/kg (Calculation method)		Non-applicable	
Inhalation	15.7 mg/L (4 h) (Calculation method)	0 %	

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available Harmful to aquatic life with long lasting effects.

# 12.1 Toxicity:

## **Acute toxicity:**

Identification		Concentration	Species	Genus
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	LC50	3.6 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 85586-07-8	EC50	4.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	20 mg/L (72 h)	Desmodesmus subspicatus	Algae
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Amines, C12-18-alkyldimethyl, N-oxides	LC50	1.26 mg/L (96 h)	Danio rerio	Fish
CAS: 68955-55-5	EC50	2.4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.143 mg/L (72 h)	Desmodesmus subspicatus	Algae
Amines, coco alkyldimethyl	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 61788-93-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
bronopol (INN)	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 52-51-7	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

# **Chronic toxicity:**

Identification	Concentration		Species	Genus
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	NOEC	1.357 mg/L	Pimephales promelas	Fish
CAS: 85586-07-8	NOEC	Non-applicable		
2-butoxyethanol	NOEC	100 mg/L	Danio rerio	Fish
CAS: 111-76-2	NOEC	100 mg/L	Daphnia magna	Crustacean
Amines, C12-18-alkyldimethyl, N-oxides	NOEC	0.495 mg/L	Pimephales promelas	Fish
CAS: 68955-55-5	NOEC	0.7 mg/L	Daphnia magna	Crustacean
tetrasodium ethylene diamine tetraacetate	NOEC	25.7 mg/L	Danio rerio	Fish
CAS: 64-02-8	NOEC	25 mg/L	Daphnia magna	Crustacean
bronopol (INN)	NOEC	21.5 mg/L	Oncorhynchus mykiss	Fish
CAS: 52-51-7	NOEC	0.27 mg/L	Daphnia magna	Crustacean

# 12.2 Persistence and degradability:



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# SECTION 12: ECOLOGICAL INFORMATION (continued)

# **Substance-specific information:**

Identification	Degradability		Biodegradab	ility
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	BOD5	Non-applicable	Concentration	3.5 mg/L
CAS: 85586-07-8	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	95 %
2-butoxyethanol	BOD5	0.71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %
Amines, C12-18-alkyldimethyl, N-oxides	BOD5	Non-applicable	Concentration	15.7 mg/L
CAS: 68955-55-5	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %
bronopol (INN)	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 52-51-7	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %

## 12.3 Bioaccumulative potential:

# **Substance-specific information:**

Identification	Bioaccumulation potential	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	BCF	2
CAS: 85586-07-8	Pow Log	0.78
	Potential	Low
2-butoxyethanol	BCF	3
CAS: 111-76-2	Pow Log	0.83
	Potential	Low
tetrasodium ethylene diamine tetraacetate	BCF	2
CAS: 64-02-8	Pow Log	-13
	Potential	Low
bronopol (INN)	BCF	0.6
CAS: 52-51-7	Pow Log	-0.64
	Potential	Low

# 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Koc	316	Henry	Non-applicable
CAS: 85586-07-8	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	2.99E-2 N/m (23 °C)	Moist soil	Non-applicable
2-butoxyethanol	Koc	8	Henry	1.621E-1 Pa·m³/mol
CAS: 111-76-2	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (25 °C)	Moist soil	Yes
Amines, C12-18-alkyldimethyl, N-oxides	Koc	1525	Henry	0E+0 Pa·m³/mol
CAS: 68955-55-5	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
tetrasodium ethylene diamine tetraacetate	Koc	1046	Henry	0E+0 Pa·m³/mol
CAS: 64-02-8	Conclusion	Low	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

# 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

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## SECTION 13: DISPOSAL CONSIDERATIONS (continued)

#### 13.1 Waste treatment methods:

Code	Description	Waste class
02 01 08*	agrochemical waste containing hazardous substances	Dangerous

#### Type of waste:

HP14 Ecotoxic, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste 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-dangerous 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 Regulations 2011.

## **SECTION 14: TRANSPORT INFORMATION**

## Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.1 UN number: Non-applicable
 14.2 UN proper shipping name: Non-applicable
 14.3 Transport hazard class(es): Non-applicable
 14.4 Packing group: Non-applicable

**14.5 Environmental hazards:** No

14.6 Special precautions for user

Tunnel restriction code: Non-applicable
Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

## Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: Non-applicable
 14.2 UN proper shipping name: Non-applicable
 14.3 Transport hazard class(es): Non-applicable
 Labels: Non-applicable
 14.4 Packing group: Non-applicable

14.5 Marine pollutant: No

14.6 Special precautions for user

Special regulations: Non-applicable

EmS Codes:

Physico-Chemical properties: see section 9
Limited quantities: Non-applicable
Segregation group: Non-applicable

Transport in bulk according
Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

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## SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number: Non-applicable
 14.2 UN proper shipping name: Non-applicable
 14.3 Transport hazard class(es): Non-applicable
 Labels: Non-applicable
 14.4 Packing group: Non-applicable

14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according** Non-applicable

to Annex II of Marpol and

the IBC Code:

# 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): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

#### The Control of Major Accident Hazards Regulations 2015:

Non-applicable

# 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:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

H302+H332: Harmful if swallowed or if inhaled.

## 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:** 



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## SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation).

STOT SE 3: H335 - May cause respiratory irritation.

## Classification procedure:

Skin Irrit. 2: Calculation method Eye Dam. 1: Calculation method Aquatic Chronic 3: Calculation method Acute Tox. 4: Calculation method

## 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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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