

SAFETY DATA SHEET

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

GLACELF NEOTECH

SDS no.C3FVCM6VK

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

1.1 Product identifier

Product name

identification

: GLACELF NEOTECH

Product code Product description Product type Other means of : C3FVCM6VK : Not available.

: Liquid.

: Not available.

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

Identified uses	
Coolant and antifreeze.	
Uses advised against	

Not applicable.

1.3 Details of the supplier of the safety data sheet

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H.S.E

1.4 Emergency telephone number

Nationa	advisory	body/Poison Centre

Telephone number	: National Poisons Information Service (NPIS): 111
<u>Supplier</u>	
Telephone number	: Emergency telephone: +44 1235 239670



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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]

Acute Tox. 4, H302 STOT RE 2, H373

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements	Warning H302 - Harmful if swallowed.	
Precautionary statements	H373 - May cause damage to organs through prolonged or repeated exposure.	
General	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.	
Prevention	 P260 - Do not breathe gas, vapour or spray. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling. 	
Response	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or docto	ər.
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Contains	ethylene glycol	
Supplemental label elements	Not applicable.	
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 vPvB in a concentration $\geq 0,1$ %. This product does not contain any substance present at a concentration equal to greater than 0.1% by mass, included in the list drawn up in accordance with artic 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting proper 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.	o or cle rties,
Other hazards which do not result in classification	Hazard of slipping on spilt product.	



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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
ethylene glycol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≥90	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (oral)	[1] [2]
sodium benzoate	REACH #: 01-2119460683-35 EC: 208-534-8 CAS: 532-32-1	<10	Eye Irrit. 2, H319	[1]
methyl-1H-benzotriazole	REACH #: 01-2119979081-35 EC: 249-596-6 CAS: 29385-43-1	<1	Acute Tox. 4, H302 Repr. 2, H361d (oral) Aquatic Chronic 2, H411	[1]
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≤1	Not classified.	[2]
			See Section 16 for the full text of the H statements declared above.	

Additional information

: Product with ethylene-glycol base This product contains an approved repellant (bitter), for the purpose of avoiding the risk of accidental ingestion

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

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid me	asures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.



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SECTION 4: First aid	d measures				
Ingestion	: Take victim immediately to hospital SYMPTOMS MAY NOT APPEAR IMMEDIATELY Wash out mouth with water. Remove dentures if any. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.				
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation				
4.2 Most important symptor	ns and effects, both acute and delayed				
Over-exposure signs/symp	<u>)toms</u>				
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: No specific data.				
Ingestion	: Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. nausea or vomiting abdominal cramps and pain convulsive seizures Can cause central nervous system (CNS) depression.				
4.3 Indication of any immed	iate medical attention and special treatment needed				
Notes to physician	: Rinse mouth. Induce vomiting, but only if victim is fully conscious Ingestion, depending on the dose, can cause i.a. abnormal behaviour, unconsciousness, convulsions, respiratory paralysis, pulmonary oedemas, as well as damages to liver and kidneys and can lead, in the worst case, to death. A quick treatment of an ethylene-glycol intoxication, when necessary with haemodialysis, may reduce the toxical effects. Intravenous ethyl alcohol in sodium bicarbonate solution is an approved antitoxin.				
Specific treatments	: No specific treatment.				
SECTION 5: Firefigh	iting measures				
5.1 Extinguishing media					
Suitable extinguishing media	: Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).				
Unsuitable extinguishing media	: Do not use water jet.				
5.2 Special hazards arising	from the substance or mixture				
Hazards from the substance or mixture	: No specific fire or explosion hazard.				

Hazardous combustion products : carbon monoxide carbon dioxide Sodium oxides

5.3 Advice for firefighters Special protective actions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.



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SECTION 5: Firefighting measures

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained
equipment for fire-fighters	breathing apparatus (SCBA) with a full face-piece operated in positive pressure
equipment for me-nymers	
	mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ctive 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air).
6.3 Methods and material for	ntainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
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 breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.



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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Recommendations Industrial sector specific solutions

Not available.

SECTION 8: Exposure controls/personal protection

: Not available.

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values		
ethylene glycol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed		
	through skin.		
	TWA: 10 mg/m ³ 8 hours. Form: Particulate		
	TWA: 20 ppm 8 hours. Form: Vapour		
	STEL: 40 ppm 15 minutes. Form: Vapour		
	TWA: 52 mg/m ³ 8 hours. Form: Vapour		
	STEL: 104 mg/m ³ 15 minutes. Form: Vapour		
Molybdate (MoO42-), sodium, hydrate (1:2:2),	EH40/2005 WELs (United Kingdom (UK), 1/2020).		
(T-4)-	[molybdenum soluble compounds as Mo]		
	STEL: 10 mg/m³, (as Mo) 15 minutes.		
	TWA: 5 mg/m ³ , (as Mo) 8 hours.		

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.

Biological Limit Values (BLV)

No exposure indices known.

Recommended monitoring : 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.

: No known significant effects or critical hazards.

Advisory OEL DNELs/DMELs

Product/substance	Туре	Exposure	Value	Population	Effects
ethylene glycol	DNEL	Long term Inhalation	7 mg/m ³	General population	Local
	DNEL	Long term Inhalation	35 mg/m³	Workers	Local
	DNEL	Long term Dermal	53 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	106 mg/kg bw/day	Workers	Systemic
sodium benzoate	DNEL	Long term	0.06 mg/m ³	General	Local



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		Inhalation		population	
	DNEL	Long term	0.1 mg/m ³	Workers	Local
		Inhalation	5. i ing/iii		Local
	DNEL	Long term	1.5 mg/m ³	General	Systemic
		Inhalation		population	- ,
	DNEL	Long term	3 mg/m³	Workers	Systemic
		Inhalation	Ŭ		
	DNEL	Long term Oral	16.6 mg/	General	Systemic
			kg bw/day	population	-
	DNEL	Long term Dermal	31.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	62.5 mg/	Workers	Systemic
			kg bw/day	o 1	
nethyl-1H-benzotriazole	DNEL	Long term Oral	0.01 mg/	General	Systemic
		Long torm Dormal	kg bw/day	population	Sustamia
	DNEL	Long term Dermal	0.01 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.3 mg/kg	population Workers	Systemic
	DINEL	Long term Derma	bw/day	VVUIKEIS	Systemic
	DNEL	Long term	350 µg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	21.2 mg/m ³	Workers	Systemic
		Inhalation			
/lolybdate (MoO42-), sodium,	DNEL	Long term	7.15 mg/m ³	General	Systemic
ydrate (1:2:2), (T-4)-		Inhalation		population	
	DNEL	Long term Oral	7.3 mg/kg	General	Systemic
		1	bw/day	population	
	DNEL	Long term	23.97 mg/	Workers	Systemic

PNECs

Product/substance	Compartment Detail	Value	Method Detail
ethylene glycol	Fresh water	10 mg/l	Assessment Factors
	Marine water	1 mg/l	Assessment Factors
	Fresh water sediment	37 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	3.7 mg/kg dwt	-
	Soil	1.53 mg/kg dwt	Equilibrium Partitioning
	Sewage Treatment	199.5 mg/l	Assessment Factors
	Plant		
sodium benzoate	Fresh water	130 µg/l	-
	Marine water	13 µg/l	-
	Fresh water sediment	1.76 mg/kg dwt	-
	Marine water sediment	176 µg/kg dwt	-
	Soil	60 µg/kg dwt	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Secondary Poisoning	300 mg/kg	-
methyl-1H-benzotriazole	Fresh water	0.008 mg/l	-
	Marine water	0.02 mg/l	-
	Fresh water sediment	0.117 mg/kg dwt	-
	Marine water sediment	0.292 mg/kg dwt	-
	Soil	0.0187 mg/kg dwt	-
	Sewage Treatment	39.4 mg/l	-
	Plant		
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	Fresh water	27.25 mg/l	-



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	Marine water4.87 mg/l-Fresh water sediment48500 mg/kg dwt-Marine water sediment5058 mg/kg dwt-Soil20.39 mg/kg dwt-Sewage Treatment46.57 mg/l-
.2 Exposure controls	
Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	
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 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 indicate this is necessary. Considering the parameters specified by the glove manufactured 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 butyl rubber Viton® 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. Neoprene gloves. Polyvinylchloride 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	: Wear suitable protective clothing. Non-skid safety shoes or boots
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/P2. 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

s. I mormation on basic physic		ind chemical properties					
Appearance							
Physical state	1	Liquid.					
Colour	:	Ørange. [Light]					
Odour	:	Mild.					
Melting point/freezing point	:	-37°C					
Initial boiling point and boiling range	:	: 173 to 185°C (343.4 to 365°F)					
Flammability (solid, gas)	Combustible when exposed to heat or flame.						
Upper/lower flammability or explosive limits	:	Not available.					
Flash point	:	Open cup: 122°C (251.6°F)					
Auto-ignition temperature	:	398°C (748.4°F)					
Decomposition temperature	composition temperature : Not available.						
рН	Ⅰ : 8 .6						
Viscosity	:	Not available.					
Solubility(ies)	:						
Media		Result					
water		Soluble					
Miscible with water	:	Yes.					
Partition coefficient: n-octano water	I/ :	Not applicable.					
Vapour pressure	:	Not available.					
Relative density	:	1.122 to 1.126					
Density	:	<mark>≸.</mark> 122 to 1.126 g/cm³ [20°C (68°F)]					
Vapour density	:	Not available.					
Particle characteristics							
Median particle size	1	Not applicable.					

9.2 Other information

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

SECTION 10: Stability and reactivity						
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.					
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).					
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.					
10.4 Conditions to avoid	: No specific data.					



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SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Strong oxidising agents strong acids nitrates peroxides Chlorates
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide Sodium oxides Ketone. Aldehyde.

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
ethylene glycol	LC50 Inhalation Dusts and mists	Rat	>2500 mg/m ³	6 hours	-
	LD50 Dermal	Mouse	>3500 mg/kg	-	-
	LD50 Oral	Cat	1600 mg/kg	-	-
	LD50 Oral	Rat	7712 mg/kg	-	-
sodium benzoate	LC50 Inhalation Dusts and mists	Rat	12.2 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	Rat	4070 mg/kg	-	-
methyl-1H-benzotriazole	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat	720 mg/kg	-	OECD 401
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T- 4)-	LC50 Inhalation Dusts and mists	Rat	5.84 mg/l	4 hours	OECD 403
	LD50 Dermal LD50 Oral	Rat Rat	>2000 mg/kg 2000 to 5000 mg/kg	-	OECD 402 -

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
G LACELF NEOTECH	1720.1	N/A	N/A	N/A	N/A
ethylene glycol	1600	N/A	N/A	N/A	N/A
sodium benzoate	4070	N/A	N/A	N/A	12.2
methyl-1H-benzotriazole	720	N/A	N/A	N/A	N/A
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-	N/A	N/A	N/A	N/A	5.84

Conclusion/Summary	: Based on available data, the classification criteria are met.
Irritation/Corrosion	
Conclusion/Summarv	:

Skin	1	Based on available data,	, th	he classification criteria are not met.
Eyes	1	Based on available data,	, tł	he classification criteria are not met.

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



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SECTION 11: Toxicological information

Sensitisation

Conc	lusion	/Summary
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 Doood on	available d	lata tha	algonification	oritorio	are not mot
 Daseu on	available u	iala, lite	classification	Cinterna	are not met.

Respiratory

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

Mutagenicity

Skin

Test	Experiment		Result
OECD 471	Experiment: In vitro	Nega	ative
OECD 476		Nega	ative
		•	
: Based on available data	a, the classification criteria	a are not met.	
Based on available data, the classification criteria are not met.			
: Based on available data	a, the classification criteria	a are not met.	
Result	Species	Dose	Exposure
	 OECD 476 Based on available data Based on available data Based on available data 	OECD 476 Subject: Bacteria Subject: Bacteria Experiment: In vitro Subject: Mammalian-An Subject: Mammalian-An : Based on available data, the classification criteria : Based on available data, the classification criteria : Based on available data, the classification criteria	OECD 476 Subject: Bacteria Nega Subject: Mammalian-Animal Nega : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met.

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

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

Specific target organ toxicity (single exposure)

Not available.

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

Specific target organ toxicity (repeated exposure)

Product/substance		Category	Route of exposure	Target organs	
ethylene glycol			Category 2	oral	kidneys
Conclusion/Summary Aspiration hazard Not available.	:	Based on available data, th	e classification cr	iteria are met.	
Conclusion/Summary	:	Based on available data, th	e classification cr	iteria are not met.	
nformation on likely routes of exposure	:	Not available.			
Potential acute health effects					
Eye contact	1	No known significant effects	s or critical hazar	ds.	
Inhalation	:	No known significant effects	s or critical hazar	ds.	
Skin contact	:	No known significant effects	s or critical hazar	ds.	
Ingestion	1	Harmful if swallowed.			
Symptoms related to the phy	sic	cal, chemical and toxicolog	ical characteris	tics	
Eye contact	:	No specific data.			
Inhalation	1	No specific data.			



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SECTION 11: Toxicological information

Skin contact	: No specific data.
Ingestion	: Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. nausea or vomiting abdominal cramps and pain convulsive seizures Can cause central nervous system (CNS) depression.

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

<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Detential algorithm is a slith off		

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
ethylene glycol methyl-1H-benzotriazole	Chronic NOAEL Oral Sub-acute NOAEL Oral	Rat - Male Rat - Male, Female	150 mg/kg 150 mg/kg	12 months -
Conclusion/Summary	: Not available.	·	·	
General	: May cause damage to org	gans through prolo	nged or repeated e	xposure.
Carcinogenicity	: No known significant effe	cts or critical hazar	ds.	
Mutagenicity	: No known significant effe	cts or critical hazar	ds.	
Reproductive toxicity	: No known significant effe	cts or critical hazar	ds.	

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

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
₽thylene glycol	Acute EC10 >1995 mg/l	Micro-organism - Activated sludge	30 minutes	ISO 8192
	Acute EC50 6500 to 13000 mg/l	Algae - Selenastrum capricornutum	96 hours	EPA
	Acute EC50 13900 to 57600 mg/l Fresh water	Daphnia	48 hours	OECD 202
	Acute LC50 49000 mg/l Fresh water	Fish - <i>Pimephales</i> <i>promelas</i> - Juvenile (Fledgling, Hatchling,	96 hours	ASTM



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SECTION 12: Ecological information

Aguta LCE0 72960 mg/l	Weanling)	06 hours	OECD 203
Acute LC50 72860 mg/l	-	90 10015	DECD 203
Chronic EC10 100 mg/l			
Chronic EC TO TOO mg/r		-	-
Chronic NOEC 8500 mg/l		7 dava	EPA
Chronic NOEC 8590 mg/r		7 days	600/4-89/001
Chronic NOEC 15290 mg/		7 daya	EPA
Chronic NOEC 15360 mg/l	-	7 days	
		70 hauna	600/4-89/001
Acute EC50 30.5 mg/l		72 nours	201
		10 houro	
			-
			-
		96 nours	-
		70 h a	
Acute EC50 75 mg/l		72 nours	OECD 201
		10 hours	
Acute EC50 8.58 mg/l		48 nours	OECD 202
	•	OC hours	
Acute LC50 55 mg/l	variegatus	96 nours	OECD 203
Chronic EC10 1.18 mg/l	Algae - Desmodesmus	72 hours	OECD 201
Fresh water	subspicatus		201
Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia	21 days	OECD 211
	galatea	-	
	Fresh water	Acute LC50 72860 mg/lFish - Pimephales promelasChronic EC10 100 mg/lAlgae - Selenastrum capricornutumChronic NOEC 8590 mg/lCrustaceans - Ceriodaphnia dubiaChronic NOEC 15380 mg/lFish - Pimephales promelasAcute EC50 30.5 mg/lAlgae - Pseudokirchneriella subcapitataAcute EC50 >100 mg/lAlgae - Pseudokirchneriella subcapitataAcute EC50 >100 mg/lDaphnia - Daphnia magna FishAcute LC50 484 mg/lFish - Pimephales promelasAcute LC50 484000 µg/lFish - Pimephales promelasFresh waterAlgae - Pseudokirchneriella subcapitataAcute EC50 75 mg/lAlgae - Pseudokirchneriella subcapitataAcute EC50 8.58 mg/lCrustaceans - Daphnia galateaAcute LC50 55 mg/lFish - Cyprinodon variegatusChronic EC10 1.18 mg/l Fresh water Chronic NOEC 0.4 mg/lAlgae - Desmodesmus subspicatus Crustaceans - Daphnia	Acute LC50 72860 mg/lFish - Pimephales promelas96 hoursChronic EC10 100 mg/lAlgae - Selenastrum capricornutum-Chronic NOEC 8590 mg/lCrustaceans - Ceriodaphnia dubia7 daysChronic NOEC 15380 mg/lFish - Pimephales promelas7 daysAcute EC50 30.5 mg/lAlgae - Pseudokirchneriella subcapitata7 daysAcute EC50 >100 mg/lDaphnia - Daphnia magna Fish48 hoursAcute LC50 484 mg/l Acute LC50 484000 µg/lFish - Pimephales promelas96 hoursFresh water Acute EC50 75 mg/lAlgae - Pseudokirchneriella subcapitata72 hoursAcute EC50 8.58 mg/lAlgae - Pseudokirchneriella subcapitata72 hoursAcute LC50 55 mg/lFish - Cyprinodon variegatus96 hoursAcute LC50 55 mg/lFish - Cyprinodon variegatus96 hoursChronic EC10 1.18 mg/l Fresh water Chronic NOEC 0.4 mg/lAlgae - Desmodesmus crustaceans - Daphnia72 hoursChronic NOEC 0.4 mg/lCrustaceans - Daphnia algae - Desmodesmus subspicatus72 hours

Conclusion/Summary :

: Not available.

12.2 Persistence and degradability

Product/substance	Test	Result		Dose	Inoculum
€thylene glycol methyl-1H-benzotriazole	OECD 301A OECD 301D	90 % - Readily - 10 4 % - Not readily -		-	Activated sludge Activated sludge
Conclusion/Summary	: Not available			·	·
Product/substance	Aquatic half-lif	e	Photoly	sis	Biodegradability
€fhylene glycol sodium benzoate methyl-1H-benzotriazole			- - -		Readily Readily Not readily

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
ethylene glycol sodium benzoate methyl-1H-benzotriazole	-1.36 -2.13 1.1	- -	Low Low Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.



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SECTION 12: Ecological information

Mobility in soil

: Given its physical and chemical characteristics, the product is generally mobile in the ground the product may evaporate Soluble in water

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

No known significant effects or critical hazards.

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	: Yes.
	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 16 01 14*
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.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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.

: Not available. 14.7 Maritime transport in bulk according to IMO

instruments

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**



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SECTION 15: Regulatory information

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Industrial emissions : Not listed (integrated pollution prevention and control) -Air Industrial emissions : Not listed (integrated pollution prevention and control) -Water International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. **Montreal Protocol** Not listed. **Stockholm Convention on Persistent Organic Pollutants** Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. **UNECE Aarhus Protocol on POPs and Heavy Metals** Not listed. **Inventory list** Australia inventory (AIIC) : All components are listed or exempted. : All components are listed or exempted. **Canada** inventory : All components are listed or exempted.

- China inventory (IECSC) Europe inventory
- Japan inventory
- -
- New Zealand Inventory of Chemicals (NZIoC)
- Philippines inventory (PICCS)
- Korea inventory (KECI)
- Taiwan Chemical Substances Inventory (TCSI)
- **Thailand inventory**

Vietnam inventory

- **Turkey inventory**
- United States inventory (TSCA 8b)
- : Not determined.

: Not determined.

: Not determined.

exempted.

: All components are listed or exempted.

All components are listed or exempted.All components are listed or exempted.

: All components are listed or exempted.

: All components are listed or exempted.

Japan inventory (ISHL): Not determined. : All components are listed or exempted.

: Japan inventory (CSCL): All components are listed or

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.



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SECTION 15: Regulatory information

15.2 Chemical safety	: Risk management measures and safety conditions of use are included in the
assessment	relevant sections of the SDS

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	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
Acute Tox. 4, H302	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

₩302	Harmful if swallowed.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications

Acute Tox. 4 Aquatic Chronic 2 Eye Irrit. 2 Repr. 2 STOT RE 2	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
Date of printing	: 2024/01/10
Date of issue/ Date of revision	: 2024/01/10
Date of previous issue	e : 2023/08/07
Version	: 2
Notice to reader	



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SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.