SAFETY DATA SHEET



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

COOLELF PLUS -37°C

SDS no. 31344

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

1.1 Product identifier

Product name : COOLELF PLUS -37°C

Product code : 31344

Product description: Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses

Not applicable.

Uses advised against

Not applicable.

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

m.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor) Canary Wharf,

London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

m.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS): 111

Supplier

Telephone number: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations: Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 1/17 2022/11/15



SDS no.

31344

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]

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown

: Contains 3% of components with unknown hazards to the aquatic environment

ecotoxicity

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

2.2 Label elements

Signal word : No signal word.

Hazard statements

: No known significant effects or critical hazards.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.

P260 - Do not breathe gas, vapour or spray. P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

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

national and international regulations.

Contains : ethylene glycol

disodium tetraborate pentahydrate

Supplemental label

elements

: Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0.1 %.

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

Other hazards which do not result in classification

: Hazard of slipping on spilt product.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 2/17 2022/11/15



SDS no.

31344

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
ethylene glycol	REACH #: 01-2119456816-28 EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≥75 - <80	Acute Tox. 4, H302	[1] [2]
sodium benzoate	REACH #: 01-2119460683-35 EC: 208-534-8 CAS: 532-32-1	≤6.2	Eye Irrit. 2, H319	[1]
disodium tetraborate pentahydrate	REACH #: 01-2119490790-32 EC: 215-540-4 CAS: 12179-04-3 Index: 005-011-02-9	≤3	Eye Irrit. 2, H319 Repr. 1B, H360FD	[1]
			See Section 16 for the full text of the H statements declared above.	

Additional information

: Product with ethylene-glycol base

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>Type</u>

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 measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention 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

: Mush 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.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 3/17 2022/11/15



SDS no.

31344

SECTION 4: First aid 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : 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 immediate 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, 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

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

Hazardous combustion

products

: carbon monoxide carbon dioxide Sodium oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Fromptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 4/17 2022/11/15



SDS no. 31344

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders

Fspecialised 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 environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. 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 noncombustible, 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. 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
Advice on general
occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 5/17



SDS no.

31344

SECTION 7: Handling and storage

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

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/substance	Exposure limit values		
	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 10 mg/m³ 8 hours. Form: Particulate TWA: 20 ppm 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour TWA: 52 mg/m³ 8 hours. Form: Vapour STEL: 104 mg/m³ 15 minutes. Form: Vapour		

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

No exposure limit value known.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Advisory OEL DNELs/DMELs

: No known significant effects or critical hazards.

Product/substance	Type	Exposure	Value	Population	Effects
e thanediol	DNEL	Long term Inhalation	7 mg/m³	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 Inhalation	0.06 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1.5 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic

Date of revision : Version: 2 United Kingdom (UK) **ENGLISH**



SDS no.

31344

SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure controls/personal protection						
DNEL Long term Oral 16.6 mg/ General Sy	ystemic					
kg bw/day population	,					
	ystemic					
kg bw/day population						
	ystemic					
kg bw/day						
	ocal					
Inhalation Inhalation						
	ocal					
	ystemic					
DNEL Long term Oral kg bw/day population Sy	votomio					
kg bw/day population	ystemic					
	ystemic					
Inhalation population	ysternic					
	ocal					
Inhalation population	-					
	ystemic					
Inhalation						
	ystemic					
kg bw/day						
	ystemic					
Inhalation population						
	ystemic					
kg bw/day population	votomio					
DNEL Long term Oral 0.79 mg/ General Sy kg bw/day population	ystemic					
	ystemic					
kg bw/day population	ysternie					
	ystemic					
kg bw/day population	′					
	ystemic					
kg bw/day population						
	ystemic					
Inhalation population						
	ystemic					
Inhalation DNEL Long term Dormal 150 5 mg/ Conord	votomio					
DNEL Long term Dermal 159.5 mg/ General Sy kg bw/day population	ystemic					
	ystemic					
kg bw/day	yotonno					
	ocal					
Inhalation m ³ population						
	ocal					
Inhalation m³ population						
	ocal					
Inhalation m ³	_					
	ocal					
Inhalation m³						

PNECs

Date of revision: Version: 2
United Kingdom (UK) ENGLISH 7/17
2022/11/15



SDS no.

31344

SECTION 8: Exposure controls/personal protection

Product/substance	Compartment Detail	Value	Method Detail
e thanediol	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	-
disodium tetraborate pentahydrate	Fresh water	2.9 mg/l	-
	Marine water	2.9 mg/l	-
	Soil	5.7 mg/kg dwt	-
	Sewage Treatment	10 mg/l	-
	Plant		

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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.

nitrile rubber Neoprene gloves. butyl rubber Viton®

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

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 8/17



SDS no. 31344

SECTION 8: Exposure controls/personal protection

of its use and its replacement frequency

Body protection Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection : Ensure adequate ventilation and check that a safe, breathable atmosphere is

present before entry into confined spaces In case of inadequate ventilation wear respiratory protection: Type A/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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear] Colour Blue. Green. Odour : Characteristic. : Not available. **Odour threshold**

Melting point/freezing point -36°C

Initial boiling point and

boiling range

: 109°C (228.2°F)

Flammability (solid, gas) **Upper/lower flammability or**

explosive limits

: Not available. : Not available.

8.4

: Not available. Flash point **Auto-ignition temperature** Not available. **Decomposition temperature** : Not available.

pН

Viscosity Not available.

Solubility(ies)

Media Result water Soluble

: Yes. Miscible with water

Partition coefficient: n-octanol/: Not applicable.

Vapour pressure : Not available.

Relative density : 1.076

: 1.076 g/cm³ [20°C (68°F)] **Density**

Date of revision : Version: 2 United Kingdom (UK) **ENGLISH**



SDS no.

31344

SECTION 9: Physical and chemical properties

Vapour density

Particle characteristics

: Not available. : Not applicable.

Median particle size

9.2 Other information

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

SECTION 10: Stability and reactivity

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

: Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

10.5 Incompatible materials : Strong oxidising agents

> strong acids nitrates peroxides Chlorates

10.6 Hazardous decomposition products : carbon monoxide carbon dioxide Sodium oxides

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	_	-
disodium tetraborate pentahydrate	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
,	LD50 Oral	Rat - Male	2501 mg/kg	-	OECD 401

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

Date of revision: Version: 2 United Kingdom (UK) **ENGLISH** 10/17



SDS no.

31344

SECTION 11: Toxicological information

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
COOLELF PLUS -37°C	2000.3	N/A	N/A	N/A	N/A
ethanediol	1600	N/A	N/A	N/A	N/A
sodium benzoate	4070	N/A	N/A	N/A	12.2
disodium tetraborate pentahydrate	2501	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
₫sodium tetraborate pentahydrate	Eyes - Severe irritant	Rabbit	1	100 mg	-

Conclusion/Summary

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

Sensitisation

Conclusion/Summary :

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

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are 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)

Not available.

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

Aspiration hazard

Not available.

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

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : Mo known significant effects or critical hazards.

Inhalation : Mo known significant effects or critical hazards.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 11/17



SDS no. 31344

SECTION 11: Toxicological information

Skin contact
Ingestion
Ingestion
Ingestion
Index in the significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : 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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
e thanediol	Chronic NOAEL Oral	Rat - Male	150 mg/kg	12 months

Conclusion/Summary: Not available.

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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

11.2.2 Other information

SECTION 12: Ecological information

12.1 Toxicity

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 12/17 2022/11/15



SDS no.

31344

SECTION 12: Ecological information

Product/substance	Result	Species	Exposure	Test
ethylene 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 72860 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic EC10 100 mg/l	Algae - Selenastrum capricornutum	-	-
	Chronic NOEC 8590 mg/l	Crustaceans - Ceriodaphnia dubia	7 days	EPA 600/4-89/001
	Chronic NOEC 15380 mg/l	Fish - Pimephales promelas	7 days	EPA 600/4-89/001
sodium benzoate	Acute EC50 30.5 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	201
	Acute EC50 >100 mg/l Acute LC50 484 mg/l Acute LC50 484000 µg/l Fresh water	Daphnia - Daphnia magna Fish Fish - Pimephales promelas	48 hours 96 hours 96 hours	- - -

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
e thanediol	OECD 301A	90 % - Readily - 10 days	-	Activated sludge

Conclusion/Summary: Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
e thanediol	-	-	Readily
sodium benzoate	-	-	Readily

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
thanediol sodium benzoate	-1.36 -2.13		low low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product 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.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 13/17



SDS no.

31344

SECTION 12: Ecological information

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. 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	-	-	-	-

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 14/17 2022/11/15



SDS no. 31344

SECTION 14: Transport information 14.5 No. No. No. No. **Environmental** hazards

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name		Reference number	Date of revision
Toxic to reproduction	disodium tetraborate, anhydrous	Candidate	-	6/18/2010

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

: Restricted to professional users.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Ake note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

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.

Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work

Date of revision: Version: 2 United Kingdom (UK) **ENGLISH** 15/17



SDS no. 31344

SECTION 15: Regulatory information

Industrial emissions

(integrated pollution prevention and control) -

Air

Industrial emissions

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

: Not listed

: Not listed

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)

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

All components are listed or exempted.

Europe inventory

All components are listed or exempted.

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

Japan inventory (ISHL): Not determined.

New Zealand Inventory of Chemicals : All components are listed or exempted.

(NZIoC)

Philippines inventory (PICCS) : All components are listed or exempted.

Korea inventory (KECI) : All components are listed or exempted.

Taiwan Chemical Substances Inventory : All components are listed or exempted.

(TCSI)

Thailand inventory : MI components are listed or exempted.

Turkey inventory : Not determined.

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

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

Date of revision: Version: 2 United Kingdom (UK) ENGLISH 16/17 2022/11/15



SDS no. 31344

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

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

Not classified.

Full text of abbreviated H statements

H360FD May damage fertility. May damage the unborn child.

Full text of classifications

Acute Tox. 4 ACUTE TOXICITY - Category 4

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Repr. 1B REPRODUCTIVE TOXICITY - Category 1B

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Notice to reader

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

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