

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 31317 GLACELF CLASSIC

Date of the previous version: 2015-06-05 Revision Date: 2015-07-08 Version 2.01

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

COMPANY/UNDERTAKING

## 1.1. Product identifier

Product name GLACELF CLASSIC

Number FDP Substance/mixture Mixture

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

**Identified uses** Antifreeze, Coolant.

1.3. Details of the supplier of the safety data sheet

Supplier TOTAL UK LIMITED

One Euston Square

40 Melton Street. London. NW1 2FD

UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

For further information, please contact:

Contact Point Specific Product Related Info : 01977 636200

E-mail Address rm.gb-msds@total.co.uk

1.4. Emergency telephone number

00 33 149 00 00 49 (24h/24, 7d/7) TOTAL UK ltd: + 44 (0) 20 7339 8000

For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200 For bitumen only: Total Bitumen -+44 (0) 17 7272 9302

# Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

# **REGULATION (EC) No 1272/2008**

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

#### Classification

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008

Acute oral toxicity - Category 4 - (H302)

Specific target organ toxicity (repeated exposure) - Category 2 - (H373)



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#### 2.2. Label elements

#### Labelled according to

REGULATION (EC) No 1272/2008

Contains Monoethyleneglycol





Signal Word WARNING

#### **Hazard Statements**

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

#### **Precautionary statements**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray

P264 - Wash hands thoroughly after handling

P270 - Do no eat, drink or smoke when using this product

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE/doctor

#### **Unknown Acute Toxicity**

2.9% of the mixture consists of ingredient(s) of unknown toxicity

# 2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixture

**Hazardous components** 

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
Monoethyleneglycol	203-473-3	01-2119456816-28	107-21-1	<98	Acute Tox.4 (H302) STOT RE 2 (H373)



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disodium tetraborate pentahydrate	215-540-4	01-2119490790-32	12179-04-3	<3	Eye Irrit. 2 (H319) Repr. 1B (H360FD)

**Additional information** 

Product with ethylene-glycol base. This product contains an approved repellant (bitter), for

the purpose of avoiding the risk of accidental ingestion.

#### For the full text of the H-Statements mentioned in this Section, see Section 16.

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical Name	CAS-No	SVHC candidates
disodium tetraborate pentahydrate	12179-04-3	X

#### Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE. Show this safety data sheet to the doctor in attendance.

Eye contact Check for and remove any contact lenses. Rinse thoroughly with plenty of water, also under

the eyelids.

**Skin contact** Remove contaminated clothing and shoes. Wash skin with soap and water. Wash

contaminated clothing before reuse.

**Inhalation** Move to fresh air. If breathing difficult, Consult a physician.

Ingestion Do NOT induce vomiting. Call a physician or poison control centre immediately. Never give

anything by mouth to an unconscious person.

# 4.2. Most important symptoms and effects, both acute and delayed

Eye contact Not classified.

Skin contact Not classified.

Inhalation Not classified. Vapours inhaled in strong concentration have a narcotic effect on the central

nervous system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness,

headache, tiredness, nausea, unconsciousness, cessation of breathing.

**Ingestion** Harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of

ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious

nervous disorders. This develops into a state of torpor and then coma, at times

accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that

may be fatal.



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# 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media Water spray or fog. Foam. Dry chemical powder. Carbon dioxide (CO 2). Alcohol-resistant

foam.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

Special hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

#### 5.3. Precautions for fire-fighters

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing

water must be disposed of in accordance with local regulations.

#### Section 6: ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

# 6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from

entering drains or water courses. Local authorities should be advised if significant spillages

cannot be contained.

# 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustable absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for

disposal.

#### 6.4. Reference to other sections



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Personal protective equipment

See Section 8 for more detail.

Waste treatment

See section 13.

#### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in

well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes

and clothing. Never pierce, drill, grind, cut, saw or weld any empty container.

**Prevention of fire and explosion** Take precautionary measures against static discharges. Ground/bond containers, tanks

and transfer/receiving equipment.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been

contaminated with product. Do not put product contaminated rags into workwear pockets.

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

Technical measures/Storage

conditions

Keep out of reach of children. Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight.

Protect from moisture.

Materials to avoid

Strong oxidising agents.

7.3. Specific use(s)

Specific use(s)

No information available.

# Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parametres

# **Exposure limits**

Components with workplace control parametres

Chemical Name	European Union	The United Kingdom	Ireland
Monoethyleneglycol	TWA 20 ppm	STEL 40 ppm vapour	TWA 10 mg/m³ particulate
107-21-1	TWA 52 mg/m <sup>3</sup>	STEL 104 mg/m³ vapour	TWA 20 ppm vapour
	STEL 40 ppm	STEL 30 mg/m³ particulate	TWA 52 mg/m <sup>3</sup> vapour
	STEL 104 mg/m <sup>3</sup>	TWA 20 ppm vapour	STEL 40 ppm vapour
	S*	TWA 52 mg/m³ vapour	STEL 104 mg/m³ vapour
		TWA 10 mg/m³ particulate	Skin
		Skin	

Legend See section 16



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**DNEL Worker (Industrial/Professional)** 

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Monoethyleneglycol 107-21-1			106 mg/kg bw/day (dermal)	35 mg/m³/8h (inhalation)
disodium tetraborate pentahydrate 12179-04-3			6.7 mg/m³ Inhalation 316.4 mg/kg bw/day Dermal	

**DNEL Consumer** 

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	
Monoethyleneglycol			53 mg/kg bw/day	7 mg/m <sup>3</sup> /24h (inhalation)
107-21-1			(dermal)	
disodium tetraborate	0.79 mg/kg bw/day Oral		3.4 mg/m³ Inhalation	
pentahydrate			159.5 mg/kg bw/day	
12179-04-3			Dermal	
			0.79 mg/kg bw/day Oral	

# Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Monoethyleneglycol 107-21-1		37 mg/kg dw fw 3.7 mg/kg dw mw	1.53 mg/kg dw		199.5 mg/l	
disodium tetraborate pentahydrate 12179-04-3	2.9 mg/l fw 2.9 mg/l mw 13.7 mg/l or		5.7 mg/kg dw		10 mg/l	

#### 8.2. Exposure controls

#### **Occupational Exposure Controls**

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

Personal protective equipment

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

exposure limit they must use appropriate certified respirators: Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the

regulations governing their choices and uses.\*\*\*

**Eye protection** If splashes are likely to occur, wear:. Safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Impervious gloves. Protective shoes or boots. Long

sleeved clothing.



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Hand protection

Rubber gloves, Nitrile rubber. Neoprene gloves, Polyvinylchloride. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

#### **Environmental exposure controls**

General Information Do not allow material to contaminate ground water system.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Colour blue Physical state @20°C Liquid Odour slight

PropertyValuesRemarksMethodpH6.7Boiling point/boiling range180 °C<br/>356 °F

Flash point 122 °C Cleveland Open Cup (COC) 252 °F Cleveland Open Cup (COC)

Evapouration rateNo information availableFlammability Limits in AirNo information availableVapour pressureNo information available

 Vapour density
 > 1
 (Air = 1)

 Density
 1100 kg/m³
 @ 20 °C

 Water solubility
 soluble

Solubility in other solvents

logPow

No information available

No information available

No information available

No information available

Viscosity, kinematic

Explosive properties

Oxidising properties

Possibility of hazardous reactions

No information available

No information available

No information available

No applicable

# 9.2. Other information

Freezing point -18 °C 0 °F

# Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

General Information No information available.



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10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

**Hazardous reactions** None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot, Ketones.

# Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

Skin contact . Not classified.

Eye contact . Not classified.

Inhalation . Not classified. Vapours inhaled in strong concentration have a narcotic effect on the

central nervous system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

Ingestion . Harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of

ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious

nervous disorders. This develops into a state of torpor and then coma, at times

accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that

may be fatal.

# **Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

2.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity



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#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethyleneglycol	LD50 7712 mg/kg Oral (Rat)	LD50 > 3500 mg/kg Dermal (Mouse)	LC50(6h) >2.5 mg/l Inhalation (Rat)
disodium tetraborate pentahydrate	LD50 > 2500 mg/kg (Rat - male - OECD401)	LD50 > 2000 mg/kg (Rabbit)	

Sensitisation

**Sensitisation** Not classified as a sensitizer.

Specific effects

**Carcinogenicity**This product is not classified carcinogenic. **Mutagenicity**This product is not classified as mutagenic.

Reproductive toxicity Contains a known or suspected reproductive toxin. The provider of a component used in the

formulation indicates that the data available show that use applied rates, no classification

as toxic for reproduction is required.

Chemical Name	European Union
disodium tetraborate pentahydrate 12179-04-3	Repr. 1B (H360FD)

**Repeated Dose Toxicity** 

**Subchronic Toxicity** No information available.

**Target Organ Effects (STOT)** 

Target Organ Effects (STOT) Kidney.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Other information

Other information No information available.

# Section 12: ECOLOGICAL INFORMATION

# 12.1. Toxicity

Not classified.

#### Acute aquatic toxicity - Product Information

No experimental data available .

# Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic		microorganisms
		invertebrates.		



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Monoethyleneglycol	EC50(48h) >10000 mg/l	EC50(48h) >100 mg/l	LC50 (95h) 72860 mg/l	
107-21-1	-	Daphnia magna (OECD 202)	(Phimephales promelas)	
			LC50(96h) 18500 mg/l	
			(Rainbow trout)	
			EC50(96h) 6500-13000 mg/l	
			(Selenastrum capricornulum)	

#### Chronic aquatic toxicity - Product Information

No information available.

#### Chronic aquatic toxicity - Component Information

No information available.

#### Effects on terrestrial organisms

No information available.

# 12.2. Persistence and Degradability

#### **General Information**

No information available.

# 12.3. Bioaccumulative potential

**Product Information** No information available.

logPow No information available

**Component Information** 

Component information .				
Chemical Name	log Pow			
Monoethyleneglycol - 107-21-1	-1.36			

# 12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product is generally mobile in the

ground.

Air Loss by evaporation is limited.

Water soluble.

#### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This preparation contains no substance considered to be persistent, bioaccumulating nor

toxic (PBT). This mixture contains no substance considered to be very persistent nor very

bioaccumulating (vPvB).

# 12.6. Other adverse effects

General Information No information available.

# Section 13: DISPOSAL CONSIDERATIONS



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# 13.1. Waste treatment methods

Waste from residues / unused

products

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. If recycling is not

practicable, dispose of in compliance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**EWC Waste Disposal No**The following Waste Codes are only suggestions:. 16 01 14.

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# Section 14: TRANSPORT INFORMATION

ADR/RID not regulated

IMDG/IMO not regulated

ICAO/IATA not regulated

ADN not regulated

# Section 15: REGULATORY INFORMATION

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

# **European Union**

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.

International Inventories Australia (AICS)

Canada (DSL/NDSL)

Europe (EINECS/ELINCS/NLP)

China (IECSC) Korea (KECL) Philippines (PICCS) U.S.A. (TSCA)

Further information



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No information available

#### 15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

#### 15.3. National regulatory information

#### **The United Kingdom**

Avoid exceeding occupational exposure limits (see section 8).

#### **Ireland**

• Avoid exceeding occupational exposure limits (see section 8).

#### Section 16: OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H360FD - May damage fertility. May damage the unborn child

H373 - May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system through prolonged or repeated exposure if swallowed

#### Abbreviations, acronyms

Legend Section 8

TWA: Time Weight Average STEL: Short Time Exposure Limit

+ Sensitiser \* Skin designation

\* Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

Revision Date: 2015-07-08

**Revision Note**\*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of Safety Data Sheet**