

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 32122 **GLACELF SUPRA**

Date of the previous version: 2015-05-12 **Revision Date: 2017-10-31** Version 3.01

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

COMPANY/UNDERTAKING

1.1. Product identifier

GLACELF SUPRA Product name

Number FDX Substance/mixture Mixture

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

Antifreeze, Coolant. Identified uses

1.3. Details of the supplier of the safety data sheet

A - TOTAL UK LIMITED Supplier

183 Eversholt St, Kings Cross

London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

B-TOTAL 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

For further information, please contact:

A - HSE **Contact Point**

B - HSE

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

B - rm.msds-lubs@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

UK: National Poisons Information Service (NPIS): NHS on 111 or a doctor

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture



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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)

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

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

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

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product***

2.3. Other hazards

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical nature Product with ethylene-glycol base.***

Hazardous components

nazaruous components					
Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification



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Monoethyleneglycol***	203-473-3***	01-2119456816-28	107-21-1	90-<100	Acute Tox.4 (H302)
					STOT RE 2 (H373)

Additional information Product with ethylene-glycol base.

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

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.***

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.***

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse.***

Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration.***

Ingestion Clean mouth with water. Take victim immediately to hospital. Induce vomiting, but only if

victim is fully conscious. Never give anything by mouth to an unconscious person.***

Protection of first-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.**

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.

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



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Notes to physician

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.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Water spray. 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. Prevent entry into waterways,

sewers, basements or confined areas. Local authorities should be advised if significant

spillages cannot be contained.***

6.3. Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar

non-combustible materials.**

Methods for cleaning up

Dispose of contents/container in accordance with local regulation. In case of soil

contamination, remove contaminated soil for remediation or disposal, in accordance with

local regulations.***



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6.4. Reference to other sections

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 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.**

Prevention of fire and explosion Take precautionary measures against static discharges.***

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

contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. 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 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. Store at room temperature. Protect from moisture.***

Materials to avoid Strong oxidising agents.***

Packaging material Recommended materials:: steel, Aluminium, Polyethylene.

Not Compatible: Zinc.***

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 ³	STEL 104 mg/m ³ vapour	TWA 20 ppm vapour
	STEL 40 ppm	STEL 30 mg/m³ particulate	TWA 52 mg/m ³ vapour



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STEL 104 mg/m³ S****	TWA 10 mg/m³ particulates TWA 20 ppm vapour TWA 52 mg/m³ vapour S****	STEL 40 ppm particulate STEL 104 mg/m³ vapour Skin***
	S	

Legend See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	
Monoethyleneglycol***			106 mg/kg bw/day	35 mg/m ³ /8h (inhalation)
107-21-1			(dermal)	

DNEL Consumer

Chemical Name
Short term, systemic effects

Monoethyleneglycol***
107-21-1

Short term, local effects
Short term, local effects
Short term, local effects
English Long term, systemic effects
Short term, local effects
effects

53 mg/kg bw/day (dermal)
7 mg/m³/24h (inhalation)

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Monoethyleneglycol	10 mg/l (fw)	37 mg/kg dw fw	1.53 mg/kg dw		199.5 mg/l	
***	1mg/l (mw)	3.7 mg/kg dw mw				
107-21-1	10 mg/l (or)					

8.2. Exposure controls

Occupational Exposure Controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. 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 Protective engineering solutions should be implemented and in use before personal

protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product AS DELIVERED. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.***

Respiratory protection None under normal use conditions. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). 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.***

Eye protection If splashes are likely to occur, wear:. Safety glasses with side-shields. EN 166.***

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type

4/6.***

Hand protection Nitrile rubber. Neoprene gloves. Polyvinylchloride. In case of prolonged contact with the

product, it is recommended to wear gloves complying with EN 420 and EN 374 standards,



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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. 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.***

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

Appearance Clear

Colour No information available***

Physical state @20°C liquid***

Odour characteristic***

Odour Threshold No information available

Property Values Remarks Method 8.2 - 8.6 No information available Melting point/range Boiling point/boiling range 180 °C 356 °F Flash point 122 °C Cleveland closed cup 252 °F Cleveland closed cup **Evapouration rate** No information available Flammability Limits in Air No information available Vapour pressure No information available Vapour density No information available Relative density No information available **Density** 1100 kg/m³ @ 20 °C

Relative density
Density
1100 kg/m³
0 20 °C
Water solubility
Solubility in other solvents
logPow
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Explosive properties
No information available

Not applicable

Not applicable

9.2. Other information

Possibility of hazardous reactions

Oxidising properties



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Freezing point -18 °C 0 °F

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.***

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat

and sparks.***

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. Other

decomposition products.***

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.



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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.

ATEmix (oral) 511.00 mg/kg

ATEmix (dermal) 3,576.00 mg/kg

ATEmix (inhalation-dust/mist) 5.20 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethyleneglycol***	LD50 2000 mg/kg Oral (Rat)	LD50 > 3500 mg/kg Dermal	LC50(6h) >2.5 mg/l Inhalation
	LD50 1600 mg/kg (cat)***	(Mouse)	(Rat)

Sensitisation

Sensitisation Not classified as a sensitizer.

Specific effects

CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.

Reproductive toxicity This product does not meet the EU criteria for classification. Contains a known or

suspected reproductive toxin.

Repeated dose toxicity

Subchronic Toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) Kidney. Liver. Respiratory system. Central nervous system (CNS). Eyes.***

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Other information

Other adverse effects No information available.***

Other information No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Product Information***



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No information available.

Acute aquatic toxicity - Component Information

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

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 the product may evaporate.***

Water soluble.***

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.



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12.6. Other adverse effects

General Information No information available.***

Section 13: DISPOSAL CONSIDERATIONS

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

disposal.***

EWC Waste Disposal NoThe following Waste Codes are only suggestions:. 16 01 14. 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.

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



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Japan (ENCS)***

Further information

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

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

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x =Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water



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or = occasional release

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

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Revision Note *** Indicates updated section. &. 1.***

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