



SAFETY DATA SHEET
SUB ZERO BLUE ANTIFREEZE & SUMMER COOLANT

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Compilation date: 09/03/2015
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Revision No: 3

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

1.1. Product identifier

Product name: SUB ZERO BLUE ANTIFREEZE & SUMMER COOLANT
Product code: 222M,222Q,2601,222O,222CM

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

Use of substance / mixture: PC4: Anti-Freeze and de-icing products.

1.3. Details of the supplier of the safety data sheet

Company name: Granville Oil & Chemicals Ltd.
Unit 29 Goldthorpe Industrial Estate
Goldthorpe
Rotherham
South Yorkshire
S63 9BL
United Kingdom
Tel: +44 (0)1709 890099
Fax: +44 (0)1709 891121
Email: technical@granvilleoil.com

1.4. Emergency telephone number

Emergency tel: +44 (0)1709 890099
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; STOT RE 2: H373

Most important adverse effects: Harmful if swallowed. May cause damage to organs , through prolonged or repeated exposure if swallowed.

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.
H373: May cause damage to organs , through prolonged or repeated exposure if swallowed.

Hazard pictograms: GHS07: Exclamation mark
GHS08: Health hazard



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Signal words: Warning

Precautionary statements: P260: Do not breathe vapor/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P330: Rinse mouth.

P501: Dispose of contents/container to in accordance with national regulations.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

MONO ETHYLENE GLYCOL - REACH registered number(s): 012119456816-28

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-473-3	107-21-1	-	Acute Tox. 4: H302; STOT RE 2: H373	93.000%

DISODIUM TETRABORATE PENTAHYDRATE - REACH registered number(s): 012119490790-32

215-540-4	12179-04-3	-	Repr. 1B: H360FD	2.000%
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Contains: Also contains Denatonium benzoate CAS 3734-33-6 in small quantities.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact: Remove any contact lenses and open eyes wide apart. Bathe the eye with running water for 15 minutes. Seek medical attention if symptoms persist.

Ingestion: Wash out mouth with water. Give plenty of water to drink. Do not induce vomiting. If vomiting occurs the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If breathing stops, provide artificial respirations. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

[cont...]

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Inhalation: Irritation of the respiratory tract.

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

Immediate / special treatment: Treat symptomatically

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Water fog. Do not use water jet to extinguish as this will spread the fire

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Containers can burst or explode when heated due to excessive pressure build-up. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Ensure sufficient ventilation. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging. Do not use aluminium containers.

7.3. Specific end use(s)

Specific end use(s): PC4: Anti-Freeze and de-icing products.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

MONO ETHYLENE GLYCOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	52 mg/m ³	104 mg/m ³	-	-

DNEL/PNEC Values

SUB ZERO BLUE ANTIFREEZE & SUMMER COOLANT

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	35 mg/m ³	Workers	Long term Local
DNEL	Dermal	106 mg/kg	Workers	Long term systemic
DNEL	Inhalation	7mg/m ³	Consumers	Long term local
DNEL	Dermal	53 mg/m ³	Consumers	Long term systemic
PNEC	Fresh water	10 mg/l	-	-
PNEC	Marine water	1 mg/l	-	-
PNEC	STP	199.5 mg/l	-	-
PNEC	Fresh water sediments	20.9 mg/kg	-	-
PNEC	Soil (agricultural)	1.53 mg/kg	-	-
PNEC	Intermittent Release	10mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If ventilation is inadequate suitable respiratory protection must be worn, recommended with combination filter type A2/P2

Hand protection: Butyl gloves. Neoprene gloves. PVA gloves. Considering data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change as soon as deterioration is detected.

Eye protection: Chemical splash goggles or face shield. EN 166 recommended. Ensure eye bath is to hand.

Skin protection: Protective clothing. Ensure safety shower is to hand.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Blue

Odour: Odourless

Evaporation rate: No data available.

Oxidising: Not applicable.

Solubility in water: Miscible

Also soluble in: Acetone Alcohols

Viscosity: 21 cP @ 20 deg C

Boiling point/range°C: 165 @760mm Hg

Flash point°C: 111

Part.coeff. n-octanol/water: log Pow -1.93

Autoflammability°C: 400

Relative density: 1.13 @ 20 deg

9.2. Other information

Other information: No data available

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong alkali's

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
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DERMAL	MUS	LD50	3500.0	mg/kg
ORAL	RAT	LD50	7712.0	mg/kg

Hazardous ingredients:

MONO ETHYLENE GLYCOL

IVN	RAT	LD50	3260	mg/kg
ORAL	MUS	LD50	5500	mg/kg
ORAL	RAT	LD50	4700	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Irritation of the respiratory tract.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	72860	mg/l
DAPHNIA	48H EC50	100	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	14-18	ml/l
Daphnia magna	48H EC50	46300	mg/l

12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Low bioaccumulation potential

12.4. Mobility in soil

Mobility: The material has low volatility and is water soluble hence the potential for mobility is high.

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12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: None known

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste code number: 07 01 04

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H360FD: May damage fertility. May damage the unborn child.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.