

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Coolant -38C  
Product code : 830  
Article number : 83000

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

##### 1.2.1. Relevant identified uses

Function or use category : Antifreeze/Coolant

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV  
Maxwellstraat 41  
3316 GP Dordrecht - Nederland  
T 0031 78 651 2322 - F 0031 78 617 4848  
[rjjonker@bardahl.nl](mailto:rjjonker@bardahl.nl) - [www.bardahl.nl](http://www.bardahl.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010  
During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Acute toxicity (oral), Category 4 H302  
Specific target organ toxicity — Repeated exposure, Category 2 H373  
Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Warning  
Hazardous ingredients : Sodium 2-ethylhexanoate  
Hazard statements (CLP) : H302 - Harmful if swallowed.  
H373 - May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements (CLP) : P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste.  
P330 - Rinse mouth.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P260 - Do not breathe vapours, spray, mist, gas, fume, dust.

### 2.3. Other hazards

Other hazards. : No physical or chemical hazard. A dangerous for the health concentration in the air will not by evaporation of this substance at about 20 ° C are reached or only very slowly; However, by atomizing much faster. The product can act on the central nervous system. Vapours mix easily with air.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-ethanediol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	25 - 50	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium 2-ethylhexanoate	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8 (EC Index-No.) 01-2119979083-31	< 3	Repr. 2, H361d

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Consult a doctor/medical service.  
First-aid measures after inhalation : Assure fresh air breathing. Keep victim at rest in half upright position. If breathing is irregular or stopped, administer artificial respiration.  
First-aid measures after skin contact : Remove contaminated clothing immediately. Wash skin thoroughly with mild soap and water. Get medical advice/attention.  
First-aid measures after eye contact : Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.  
First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

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

No additional information available

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

Call a poison control centre or doctor immediately for treatment advice.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Powder. Alcohol resistant foam. Carbon dioxide. Water.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxydes (CO, CO<sub>2</sub>). Smoke.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Wear suitable respiratory equipment. Wear suitable protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

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### 6.1.2. For emergency responders

Protective equipment : Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear proper protective equipment.

### 6.2. Environmental precautions

Clean up even minor leaks or spills, if possible, without unnecessary risk. Not in groundwater, surfacewater or sewerage. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Place spillage in an appropriate labeled container for disposal.  
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Flush with plenty of water.

### 6.4. Reference to other sections

See Heading 8. See Heading 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe gas, fumes, vapour or spray. Avoid contact with skin and eyes. Wear suitable protective clothing. Do not eat, drink or smoke when using this product. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

Storage conditions : Store in dry, cool, well-ventilated area.  
Incompatible products : Oxidizer. acids.  
Incompatible materials : Sources of ignition. sparks. Open flame.  
Packaging materials : polypropylene. stainless steel. Polyethylene. Unsuitable packaging: Rubber, Aluminum.

### 7.3. Specific end use(s)

See Section 1.2 and / or exposure scenarios.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1,2-ethanediol (107-21-1)		
EU	Local name	Ethylene glycol
EU	IOELV TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin

### 8.2. Exposure controls

<b>Hand protection:</b> Wear suitable gloves tested to EN374
<b>Eye protection:</b> Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.
<b>Skin and body protection:</b> Wear suitable protective clothing
<b>Respiratory protection:</b> High gas/vapour concentration: gas mask with filter type A

### Environmental exposure controls:

See sections 6, 7, 12 and 13.

### Other information:

Good ventilation of the workplace required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Colour : Colourless.  
Odour : Odourless.

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Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: P4
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.03 - 1.04 kg/l
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 25 - 50 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

With (strong) oxidizers. Acids.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Acids. Danger of explosion.

### 10.4. Conditions to avoid

Heat. Direct sunlight. Moisture.

### 10.5. Incompatible materials

Oxidizer. Acids. Rubber. Aluminium.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (inhalation)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

ATE CLP (oral)	500 mg/kg bodyweight
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### 1,2-ethanediol (107-21-1)

LD50 oral rat	7712 mg/kg
LD50 dermal rabbit	9530 mg/kg
LC50 inhalation rat (mg/l)	> 2.5 mg/l

### Sodium 2-ethylhexanoate (19766-89-3)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	0.11 mg/l

Skin corrosion/irritation	: Effects of skin contact may include : redness. Pain. Eczema.
Serious eye damage/irritation	: Slight eye irritant.

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Respiratory or skin sensitisation	: Sore throat. Coughing. May cause drowsiness or dizziness. Loss of co-ordination. Nausea. Excessive concentrations may lead to unconsciousness. No sensitisation responses were observed
Additional information	: Harmful : may cause lung damage if swallowed.
Germ cell mutagenicity	: Not mutagenetic.
Carcinogenicity	: non carcinogen.

1,2-ethanediol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1000 mg/kg bodyweight

Reproductive toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
STOT-single exposure	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

1,2-ethanediol (107-21-1)	
NOAEL (oral, rat)	200 mg/kg bodyweight
NOAEL (acute, oral, animal/female)	1000 mg/kg bodyweight

STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Chronic aquatic toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

1,2-ethanediol (107-21-1)	
LC50 fish 1	72860 mg/l
EC50 Daphnia 1	> 100 mg/l (24h)
EC50 other aquatic organisms 1	6500 - 13000 mg/l (Algen)
NOEC chronic fish	15380 mg/l
NOEC chronic algae	8590 mg/l

Sodium 2-ethylhexanoate (19766-89-3)	
LC50 fish 1	> 100 mg/l

### 12.2. Persistence and degradability

Coolant -38C	
Persistence and degradability	Product is biodegradable.

1,2-ethanediol (107-21-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 % (OECD 301D method)

Sodium 2-ethylhexanoate (19766-89-3)	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

Coolant -38C	
Bioaccumulative potential	No.

1,2-ethanediol (107-21-1)	
Log Kow	-1.36
Bioaccumulative potential	No.

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### 12.4. Mobility in soil

Coolant -38C	
Ecology - soil	Solubility in water.

### 1,2-ethanediol (107-21-1)

Ecology - soil	High. Mobility in soil.
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### Sodium 2-ethylhexanoate (19766-89-3)

Ecology - soil	Material highly soluble in water.
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### 12.5. Results of PBT and vPvB assessment

Coolant -38C	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

#### Component

1,2-ethanediol (107-21-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Sodium 2-ethylhexanoate (19766-89-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Packaging that cannot be reused after cleaning must be disposed of or recycled in accordance with federal, national and local regulations.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

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### Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 25 - 50 %

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

Yes

## SECTION 16: Other information

### Indication of changes:

Section	Changed item	Change	Comments
1.2	Function or use category	Added	
2.2	Precautionary statements (CLP)	Modified	
15.2	Chemical safety assessment	Modified	

### Abbreviations and acronyms:

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
ICAO: International Civil Aviation Organization  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*