



Cooling Fluid BLANC

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 9/6/2017

Revision date: 9/6/2017

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Cooling Fluid BLANC
Product code : 834
Article number : 83400

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
rjonker@bardahl.nl - 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	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
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]

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

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H302 - Harmful if swallowed
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) :

P260 - Do not breathe gas, mist, vapours, spray
P270 - Do not eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED: Call a POISON CENTER, a doctor if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/container in accordance with local regulations.

EUH-statements :

EUH210 - Safety data sheet available on request

2.3. Other hazards

Other hazards. :

Vapours mix easily with air. May have damaging effect on respiratory system, central nervous system and liver.

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	35 - 45	Acute Tox. 4 (Oral), H302 STOT SE 1, H370 STOT RE 2, H373
Sodium 2-ethylhexanoate	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8 (EC Index-No.) 01-2119979083-31	0.1 - 3	Acute Tox. 2 (Inhalation:dust,mist), H330 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 :

In any case of doubt or if symptoms can be observed, get medical attention. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation :

Assure fresh air breathing. Allow the victim to rest. When unconsciousness transport in a recovery position. If breathing is irregular or stopped, administer artificial respiration. Seek medical advice.

First-aid measures after skin contact :

Remove contaminated clothing immediately. Wash with plenty of soap and water. Seek medical attention if ill effect develops.

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. Seek medical attention if irritation develops.

First-aid measures after ingestion :

Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Transport to hospital immediately.

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 CENTER or doctor/physician.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder. Alcohol resistant foam. Carbon dioxide. Water spray.
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 oxides (CO, CO₂). 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 : Do not enter fire area without proper protective equipment, including respiratory protection.

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.

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. Store in original container. Keep container tightly closed.
Incompatible products : Oxidizer. acids.
Incompatible materials : Open flame. sparks. Direct sunlight. heat.
Storage temperature : > -20 °C
Heat and ignition sources : Keep away from ignition sources.
Packaging materials : polypropylene. 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 ³)	52 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	104 mg/m ³
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin

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1,2-ethanediol (107-21-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	106 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	35 mg/m ³
Long-term - local effects, inhalation	35 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	7 mg/m ³
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day
Long-term - local effects, inhalation	7 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	20.9 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.53 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	199.5 mg/l
Sodium 2-ethylhexanoate (19766-89-3)	
PNEC (Water)	
PNEC aqua (freshwater)	0.36 mg/l
PNEC aqua (marine water)	0.036 mg/l
PNEC aqua (intermittent, freshwater)	0.493 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.301 mg/kg dwt
PNEC sediment (marine water)	0.0301 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0579 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	71.7 mg/l

8.2. Exposure controls

Hand protection:

Wear suitable gloves tested to EN374. neoprene gloves. Recommended thickness of the material: ≥ 0.7 mm. Penetration time of glove material: ≥ 480 min. Selection of the glove material on consideration of the penetration times, premeatiegraden and degradation. Refer to manufacturer's information.

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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	: clear.
Odour	: Odourless.
Odour threshold	: No data available
pH	: ca. 8.4
Relative evaporation rate (butylacetate=1)	: No data available

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Melting point	: -25 °C -
Freezing point	: -35 °C
Boiling point	: No data available
Flash point	: No data available
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	: 1.045 - 1.057 kg/l
Solubility	: Soluble in water.
Log Pow	: -1.3 (Ethyleenglycol)
Viscosity, kinematic	: 2.1 - 2.7 mm ² /s
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 25 - 50 %

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

No dangerous reactions known.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Oxidizer. Acids.

10.6. Hazardous decomposition products

Carbon oxydes (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE CLP (oral)	500 mg/kg bodyweight
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. pH: ca. 8.4
Serious eye damage/irritation	: Slight eye irritant. pH: ca. 8.4

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Respiratory or skin sensitisation	: Excessive concentrations may lead to unconsciousness. Symptoms of overexposure to vapours include : Sore throat. Coughing. Nausea. Loss of co-ordination. May cause drowsiness or dizziness. No sensitisation responses were observed
Additional information	: Harmful 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

STOT-single exposure : Not classified

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

STOT-repeated exposure : May cause damage to organs

Aspiration hazard : Not classified

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Viscosity, kinematic	2.1 - 2.7 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

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

Cooling Fluid BLANC	
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

Cooling Fluid BLANC	
Log Pow	-1.3 (Ethyleenglycol)
Bioaccumulative potential	No.

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

12.4. Mobility in soil

Cooling Fluid BLANC	
Ecology - soil	Solubility in water.

1,2-ethanediol (107-21-1)	
Ecology - soil	High. Mobility in soil.

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

Cooling Fluid BLANC	
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.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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 %

15.1.2. National regulations

Germany

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VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

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. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
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
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H302	Harmful if swallowed
H330	Fatal if inhaled
H361d	Suspected of damaging the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
EUH210	Safety data sheet available on request

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