

SAFETY DATA SHEET

According to Annexes II and 1272/2008 1907/2006

(All references to EU regulations and directives are abbreviated to the number designation only)

Revision date 2025-05-03

Replaces sheet issued ____-____-____

Version number 3.0



SECTION 1: Name of the substance/mixture and the company/company

1.1 Product name

Tradename X-Coolant

1.2 Relevant identified uses of the substance or mixture and uses for which it is discouraged.

Product Group Liquid coolant
Identified uses Engine, battery, fuelcell

1.3 Further information on the supplier of safety data sheets

Enterprise X-Coolant AB
Bläshammar 27
432 48 Varberg
Telephone +46 709 59 57 59
Email info@x-coolant.com

1.4 Emergency phone number

In emergencies: Call 112, request poison information.

SECTION 2: Hazardous Properties

2.1 Classification of the substance or mixture

This mixture is not classified as hazardous for assessment purposes under 1272/2008.

2.2 Labelling data

Hazard pictogram N/A
Signal word N/A
Hazard statement N/A

Additional hazard information

EUH210 Safety Data Sheet is available on request.

2.3 Other dangers

This product does not contain any substances that are deemed to be a PBT or vPvB substance

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Please note that the table shows known hazards for the ingredients in their pure form. Hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
AMMONIUM chloride		
CAS No: 12125-02-9 EC No: 235-186-4 Index No.: 017-014-00-8	Acute Tox. 4, Eye Irrit. 2; H302, H319	0.1<1%

Explanations of the classification and labelling of ingredients are given in Section 16e. Official abbreviations are written in normal style. In italics, the specifications and/or additions used to calculate the classification of the mixture are indicated, see Section 16b.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures General

If in doubt or if symptoms occur, seek medical attention.

Inhaled

Let the injured person rest in a warm place with fresh air. If symptoms persist, see a doctor.

In case of contact with eyes

For safety, flush the eye with water. If symptoms occur, consult a doctor.

In case of skin contact

Normal washing of the skin is considered sufficient; If symptoms do occur, contact a doctor. Take off contaminated clothes.

If swallowed

First, rinse your mouth thoroughly with plenty of water and SPIT OUT the rinse water. Then drink at least half a liter of water. Consult a doctor if symptoms persist.

4.2 The main symptoms and effects, both acute and delayed

No additional, relevant information available.

4.3 Indication of immediate medical treatment and special treatment that may be required

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agents

N/A: The product can't burn.

5.2 Specific hazards that the substance or mixture may pose

The product is not flammable.

The product is not oxidizing.

5.3 Advice for firefighting professionals

Protective measures are taken with regard of other materials at the scene of the fire.

SECTION 6: Measures in the event of accidental release

6.1 Personal protective measures, protective equipment and emergency measures

Wear recommended protective equipment, see section 8.

Avoid inhalation and contact with skin and eyes.

Keep unauthorized and unprotected people at a safe distance.

6.2 Environmental protection measures

Prevent major discharges to sewers, soil or waterways.

6.3 Methods and materials for containment and decontamination

Soak the liquid in an inert absorbent such as vermiculite, collect the material and send it for disposal.

6.4 Reference to other sections

See sections 8 and 13 for personal protective equipment and disposal.

SECTION 7: Handling and Storage

7.1 Safeguards for safe handling

Take appropriate technical control measures if necessary, see Section 8.
Wear recommended protective equipment, see section 8.
Keep this product away from food items and out of the reach of children and pets.
Do not eat, drink or smoke in premises where this product is handled.
Avoid spills and inhalation, as well as contact with skin and eyes.
Handle the substance as potentially hazardous to health.
Wash your hands after handling the product.
Take off smudged clothes.
Wash splashed clothes before they are used again.

7.2 Conditions for safe storage, including possible incompatibility

This product should be stored so that it is difficult to reach small children and well separated from products intended for consumption.
The product must be stored in such a way as to prevent health and environmental risks. Avoid contact with people and animals and do not release the product into a sensitive environment.
Always use sealed and clearly labelled packaging.
Store in a cool, dry place.

7.3 Specific End Use

See identified uses in Section 1.2.

SECTION 8: Limitation of Exposure/Personal Protection

8.1 Control Parameters

8.1.1 National limit values

All ingredients (see Section 3) do not have hygienic limits.

DNEL

AMMONIUM chloride

	Exposure Type	Route of exposure	Value
Consumer	Chronic systemic	Inhalation	9.4 mg/m ³
Employee	Chronic systemic	Dermal	128.9 mg/kg bw
Employee	Chronic systemic	Inhalation	43.97 mg/m ³
Consumer	Chronic systemic	Orally	55.2 mg/kg bw
Consumer	Chronic systemic	Dermal	55.2 mg/kg bw

PNEC

AMMONIUM chloride

Environmental protection objectives	PNEC value
Fresh water	0.25 mg/L
Freshwater sediments	0.9 mg/kg dw
Seawater	0.025 mg/L
Sediments in seawater	0.09 mg/kg dw
Microorganisms in wastewater treatment	13.1 mg/L
Soil (agriculture)	50.7 mg/kg dw
Intermittent	0.43 mg/L

8.2 Limiting exposure

The hazards posed by the product, or its components must be considered in the risk assessment for the specific work task, in accordance with the applicable occupational health and safety legislation. The risk assessment shall be reviewed regularly and updated if necessary.

8.2.1 Appropriate technical control measures

The ventilation in the workplace must ensure an air quality that meets the requirements of current work environment legislation. Process ventilation should be used to remove air contaminants at the source.

Eye protection/face protection

Eye protection should be worn if there is a risk of direct contact or splashing.

Skin protection

Wear appropriate protective clothing if necessary.

Protective gloves are not normally required due to the properties of this product. Protective gloves may be needed on the basis of other working conditions, such as abrasion, temperature conditions, or microbiological hazards.

Respirators

Respiratory protection should only be needed in extreme work situations. Consult the manufacturer if this is the case.

8.2.3. Limiting environmental exposure

For environmental exposure limitations, see Section 12.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	Liquid
b) Color	Colorless
c) Smell	Ammoniacal
d) Melting Point/Freezing Point	-53°C
e) Boiling point or initial boiling point and boiling point range	113°C
f) Flammability	None
g) Lower and upper explosion limits	None
h) Flash point	None
i) Auto-ignition temperature	None
j) Decomposition temperature	Not specified
k) pH value	On delivery, the pH value is: 7.3
l) Kinematic Viscosity	Not specified
m) Solubility	Solubility in water: Unlimited soluble (100%)
n) Distribution coefficient n-octanol/water (log value)	Not specified
o) Vapor pressure	Not specified
p) Density and/or relative density	1,200 kg/L
q) Relative vapor density	Not specified
r) Particle properties	Not specified

9.2 Other information

9.2.1 Information on hazard classes for physical hazard

Not specified

9.2.2 Other safety characteristics

Not specified

SECTION 10: Stability and Reactivity

10.1 Reactivity

The product does not contain any substances that may cause hazardous reactions under normal handling and use conditions.

10.2 Chemical stability

The product is stable under normal storage and use conditions.

10.3 The risk of dangerous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Nothing special.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological Information

11.1 Information on hazard classes under Regulation (EC) No 1272/2008

Information on possible adverse health effects is based on experience and/or toxicological properties of several components of the product.

Acute toxicity

The product is not classified as acutely toxic.

AMMONIUM chloride

LD50 rat 24h: 1650 mg/kg Oral

Corrosive/irritating to the skin

The product is not classified as corrosive or irritating to the skin.

Severe eye injury/eye irritation

On the basis of the available data, the criteria for classification cannot be considered to be met.

Respiratory/skin sensitization

The product is not classified as a sensitizer.

Mutagenicity in germ cells

The product is not classified as mutagenic.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as toxic to reproduction.

Specific organ toxicity - single exposure

The product is not classified for specific organ toxicity in single exposure.

Specific organ toxicity - repeated exposure

The product is not classified for specific organ toxicity in repeated exposure.

Danger of aspiration

The product is not classified as aspiration toxic.

11.2 Information about other hazards

11.2.1 Endocrine disrupting properties

Not specified.

11.2.2 Other information

Not specified.

SECTION 12: Ecological Information

12.1 Toxicity

The product should not be labelled as environmentally hazardous. However, it is not excluded that large emissions, or repeated smaller emissions, can have a detrimental impact on the environment.
Prevent major discharges into soil, water and sewage.

AMMONIUM chloride

EC50 Daphnia magna (Hinnkräfta swe) 48 h: 136.6 mg/L

12.2 Persistence and degradability

The methods for demonstrating biodegradability are not useful on inorganic substances.

12.3 Bioaccumulation capacity

This product or its ingredients do not accumulate in nature.

12.4 Mobility in soil

The product is miscible with water and is therefore movable in soil and water.

12.5 Results of the PBT and vPvB assessment

This product does not contain any substances that are deemed to be a PBT or vPvB substance.

12.6 Endocrine disrupting properties

Not specified.

12.7 Other harmful effects

No known effects or hazards.

SECTION 13: Waste Management

13.1 Disposal methods Disposal of the product

Prevent discharges into sewers.

The product is not classified as hazardous waste.

Empty, rinsed packages are handed over for recycling where practicable.

See Directive 2008/98/EC on waste. Also take into account national and regional regulations on waste management.

SECTION 14: Transportation Information

Unless otherwise stated, the information applies to all modes of transport according to the UN Model Regulations, i.e. ADR (road), RID (rail), ADN (inland waterways), IMDG (maritime transport) and ICAO (IATA) (air transport).

14.1 UN number

Not classified as dangerous goods

14.2 Official transport name

N/A

14.3 Hazard class for transport

N/A

14.4 Packaging Group

N/A

14.5 Environmental hazards

N/A

14.6 Special precautions

N/A

14.7 Bulk transport by sea according to IMO instruments

N/A

14.8 Other transport information

N/A

SECTION 15: Applicable Regulations

15.1 Safety, health and environmental regulations/legislation on the substance or mixture

Not specified.

15.2 Chemical safety assessment

Assessment and chemical safety report according to 1907/2006 Annex I have not yet been carried out.

SECTION 16: Other Information

16a. Information on the changes made to the previous version Revisions to this document

Previous versions

2018-08-21 Changes to sections 3, 4, 5, 7, 8, 11, 12, 13.

16b. Explanation of the abbreviations in the Safety Data Sheet Full text of hazard class and category codes mentioned in Section 3

Acute Tox. 4 Acute oral toxicity, hazard category 4 - Acute Tox. 4, H302 - Harmful if swallowed

Eye Irrit. 2 Serious eye injury or eye irritation, hazard category 2 - Eye Irritation. 2, H319 - Causes severe eye irritation

Explanations of abbreviations in Section 14

ADR European Agreement on the International Carriage of Dangerous Goods by Road

RID Regulations for the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization, the International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA International Air Transport Association

16c. References to key literature and data sources

Data sources

The primary data for the calculation of the hazards has primarily been taken from the official European classification list, 1272/2008 Annex I, updated to 2021-03-12.

Where such information is lacking, the documentation that forms the basis for the official classification, e.g. IUCLID (International Uniform Chemical Information Database), has been used in the second place. Thirdly, information from reputable international chemical companies has been used, and fourthly, from other available information, e.g. from other suppliers' safety data sheets or from non-profit organisations, in which an expert assessment has been made of the credibility of the source. If, despite this, reliable information has not been found, the hazards have been assessed by experts on the basis of known hazards from similar substances, in compliance with the principles of 1907/2006 and 1272/2008.

Full text of statutes mentioned in this safety data sheet

- 1907/2006 REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- 1272/2008 REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods for evaluating information referred to in 1272/2008 Article 9 used for the classification The calculation of the hazards of this mixture has been carried out as a weighted assessment by means of an expert assessment in accordance with 1272/2008 Annex I, weighing up all available information that may be relevant to determining the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

16e. A list of relevant hazard and precautionary statements Full text of GHS/CLP hazard statements mentioned in Section 3

H302 Harmful if swallowed

H319 Causes severe eye irritation

16f. Advice on appropriate training for employees to protect human health and the environment

Warning for improper use

This product is not expected to cause serious harm to humans or the environment. However, the manufacturer, distributor or supplier cannot accept responsibility for unusual or criminal use of the product.

Other relevant information

Not specified

Details of this document