

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

PROTEKT L plus

Version 1.0

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

1.1. Product identifier

Trade name : PROTEKT L plus

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

Use of the Substance/Mixture : Antifreezing agent, coolant

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : L&B Protekt GmbH
Neuhofstrasse 86 b
CH-8590 Romanshorn

Telephone : +41 71 414 04 38

Telefax : +41 71 414 04 34

E-mail address : info@protekt.ch

Responsible/issuing person : Günter Landgraf

1.4. Emergency telephone number

Emergency telephone number : Swiss Toxicological Information Centre
CH-8032 ZÜRICH
Tel.: +41 44 251 51 51
National emergency call: 145

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

1999/45/EC

This mixture is not classified as dangerous according to Directive 1999/45/EC.

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical : See section 9 for physicochemical information.

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hazards
Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.
The product does not need to be labelled in accordance with EC directives or respective national laws.

Section 3: Composition/information on ingredients

3.2. Mixtures

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

Section 4: First aid measures

4.1. Description of first aid measures

General advice : No special precautions required.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

Section 5: Firefighting measures

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5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Under fire conditions: Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment. Avoid contact with skin and eyes.

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

- Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.
: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

- See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

Section 7: Handling and storage

7.1. Precautions for safe handling

- Advice on safe handling : Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice.

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Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Fire-fighting class : medium-combustible (Flp > 100°C)

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from heat. Protect from frost.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Advice : Use respirator with appropriate filter if vapours or aerosol are released.

Hand protection

Advice : Protective gloves

Material : Neoprene

Material : Nitrile rubber

Material : PVC

Eye protection

Advice : Safety glasses

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Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: liquid
Colour	: blue-green
Odour	: weak
Odour Threshold	: no data available
pH	: 8,9
Freezing point	: no data available
Boiling point	: 170 °C
Flash point	: 103 °C (closed cup)
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: 12,5 %(V)
Lower explosion limit	: 2,6 %(V)
Vapour pressure	: no data available
Relative vapor density	: no data available
Density	: 1 g/cm ³ (20 °C)
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

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Explosivity : no data available

Oxidizing properties : no data available

9.2. Other information

No further information available.

Section 10: Stability and reactivity

10.1. Reactivity

Advice : Stable under recommended storage conditions.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : No information available.

10.5. Incompatible materials

Materials to avoid : Strong acids and oxidizing agents, Chlorates, Peroxides

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

no data available

Inhalation

no data available

Dermal

no data available

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Irritation

Skin

no data available

Eyes

no data available

Sensitisation

Result : No sensitizing effect known.

CMR effects

CMR Properties

Carcinogenicity : no data available

Mutagenicity : no data available

Reproductive toxicity : no data available

Specific Target Organ Toxicity

Single exposure

no data available

Repeated exposure

no data available

Other toxic properties

Repeated dose toxicity

no data available

Aspiration hazard

no data available

Further information

Other relevant toxicity information : Handle in accordance with good industrial hygiene and safety practice.

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Experience with human exposure : Health injuries are not known or expected under normal use.

Section 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

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14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

no data available

Section 16: Other information

Further information

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.