

COVER SHEET TO THE SAFETY DATA SHEET

Created on: 21.11.2025

Product identification:

Trade name: magnetic cleaner for heating systems

Intended use: Cleaner / additive for water treatment in closed heating and cooling systems (removal and dispersion of sludge, magnetite and scale deposits).

Supplier issuing the safety data sheet:

IONTEQ GmbH

Grossbruggerweg 3

7000 Chur

Switzerland

Tel.: +41 81 525 55 29

E-mail: info@ionteq.ch



National emergency number:

145 (Tox Info Suisse, available 24 h; information in German, French and Italian for calls from Switzerland)

Information for users regarding Swiss adaptations:

Section 7: Advice on safe handling and storage takes into account Swiss occupational health and water protection legislation.

Section 8: Workplace limit values are formulated with reference to Swiss limit values (SUVA-MAK/BAT); personal protective equipment is described.

Section 13: Disposal information refers to the Technical Ordinance on Waste (TVA), the Ordinance on the Movement of Waste (VeVA) and the Ordinance of the Federal Department of the Environment, Transport, Energy and Communications (UVEK) on lists for the movement of waste (LVA).

Section 15: Relevant Swiss provisions (ChemG, ChemV and any other specific regulations, where applicable) are taken into account.

Cover sheet issued on: 21.11.2025

SAFETY DATA SHEET

magnetic cleaner for heating systems – SWITZERLAND

According to Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and the Swiss Chemicals Ordinance (ChemV)

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

1.1 Product identifier

Trade name: magnetic cleaner for heating systems

Further designation: Cleaner for heating systems based on the product “magnetic cleaner for heating systems”.

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

Identified uses: Additive/cleaner for water treatment in closed heating and cooling circuits; dispersion and removal of magnetite, sludge and scale deposits.

Uses advised against: No specific uses known when the instructions in this safety data sheet are followed.

The product is primarily intended for use by professional personnel in the heating/HVAC sector.

1.3 Details of the supplier of the safety data sheet

IONTEQ GmbH

Grossbruggerweg 3

7000 Chur

Switzerland

Tel.: +41 81 525 55 29

E-mail: info@ionteq.ch

1.4 Emergency telephone number

National emergency number Switzerland: 145 (Tox Info Suisse, 24 h) – for medical emergencies only.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]: This mixture is not classified as hazardous.

Classification according to the Swiss Chemicals Ordinance (ChemV): Not classified as hazardous.

2.2 Label elements

Labelling according to CLP/ChemV: not required (no classification as hazardous mixture).

Hazard pictograms: none.

Signal word: not applicable.

Hazard statements (H-phrases): none.

Precautionary statements (P-phrases): not required. Optional: general advice such as "Keep out of reach of children" may be used on a voluntary basis.

2.3 Other hazards

The mixture does not meet the criteria for PBT or vPvB substances according to REACH Annex XIII.

No components with known endocrine-disrupting properties.

In case of improper handling (e.g. splashes in the eyes), slight irritation is possible; follow the advice in Sections 7 and 8.

When used as intended in accordance with the technical data sheet, no hazards are expected.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable (product is a mixture).

3.2 Mixtures

Aqueous preparation with organic and inorganic auxiliaries (cleaners/dispersing agents) for water treatment in heating and cooling systems.

Hazardous ingredients: No components are present at concentrations that would lead to classification of the mixture as hazardous according to REACH/CLP and ChemV.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of discomfort or persistent symptoms, consult a physician and show this safety data sheet.

Remove contaminated clothing and wash before reuse.

After inhalation:

Move the person to fresh air.

If breathing difficulties or persistent symptoms occur, seek medical advice.

After skin contact:

Wash with plenty of water and soap.

If redness or irritation persists, obtain medical advice.

After eye contact:

Rinse eyes with water for several minutes with eyelids held open. Remove contact lenses, if present and easy to do.

If irritation persists, consult an ophthalmologist.

After ingestion:

Rinse mouth thoroughly, then give one or two glasses of water to drink.

Do not induce vomiting unless instructed by medical personnel.

In case of complaints or after ingestion of larger quantities, consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms are known; in case of direct contact, slight irritation of eyes and skin is possible.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Adapt firefighting measures to surrounding fire (e.g. water spray, dry powder, foam, CO₂).

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Product itself is not flammable.

In case of fire in the surroundings, decomposition fumes may be released (e.g. CO, CO₂, nitrogen oxides).

5.3 Advice for firefighters

Prevent firefighting water and contaminated water from entering drains or watercourses.

In case of larger fires, use self-contained breathing apparatus and appropriate chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid contact with skin and eyes; use personal protective equipment as specified in Section 8.

6.2 Environmental precautions

Do not allow to enter drains, surface water or soil.

In case of larger spills, inform competent authorities.

6.3 Methods and material for containment and cleaning up

Absorb spilled liquid with liquid-binding material (e.g. sand, diatomaceous earth, absorbent).

Place collected material in suitably labelled containers and dispose of in accordance with Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8.

For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Under normal conditions of use, no special technical measures are required.

Observe usual hygiene rules when handling chemicals (no eating, drinking or smoking at the workplace; wash hands after work).

Remove contaminated clothing.

Observe Swiss regulations on worker protection (e.g. ArG, VUV).

Use in accordance with the instructions in the technical data sheet: dosage 5 kg per 1,000 litres of system water, application temperature 15–90 °C, contact time 7–14 days.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry and well-ventilated place.

Protect from frost and direct sunlight.

Store separately from food and animal feed.

Store only in the original container or in suitable, properly labelled containers.

7.3 Specific end use(s)

Cleaner/additive for heating and cooling systems to be used in accordance with the technical documentation and manufacturer's instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

For the components of this mixture, no specific Swiss workplace limit values (SUVA-MAK/BAT) are established.

8.2 Exposure controls

General protection and hygiene measures:

Observe general hygiene measures when handling chemicals.

Avoid contact with eyes and prolonged or intensive skin contact.

Eye/face protection:

In case of splashing risk, wear safety goggles according to EN 166.

Hand protection:

In case of repeated or prolonged contact, wear protective gloves (e.g. nitrile rubber). The choice of gloves for specific applications should be agreed with the glove manufacturer.

Body protection:

Wear suitable work clothing.

Respiratory protection:

Not required under normal conditions of use and with adequate ventilation. In case of aerosol formation or insufficient ventilation, use suitable respiratory protection.

Environmental exposure controls:

Prevent release into water or soil; see Sections 6 and 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless to yellowish

Odour: unspecific

Melting/freezing point: approx. 0 °C

Boiling point/boiling range: approx. 100 °C

Flash point: not determined (water-based product, non-flammable)

Auto-ignition temperature: approx. 200 °C

Lower/upper explosion limits: not determined, not explosive

pH (at 20 °C): approx. 9.5

Density (at 20 °C): approx. 1.2 g/cm³

Viscosity (dynamic): approx. 120 mPa·s

Solubility in water: easily soluble

9.2 Other information

The product is not oxidising and has no fire-promoting properties.

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if handled and stored as prescribed.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Avoid extreme temperatures, drying out and frost.

10.5 Incompatible materials

Strong oxidising agents; strong acids or bases only after consultation with the manufacturer.

10.6 Hazardous decomposition products

In case of fire/decomposition, CO, CO₂ and nitrogen oxides may be released.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral, dermal, inhalation): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Not classified; slight irritation possible in case of prolonged contact.
Serious eye damage/eye irritation: Not classified; local irritation possible in case of splashes.
Respiratory or skin sensitisation: Not classified; no components known to cause sensitisation.
Germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT–single and repeated exposure, aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

No specific test data are available for the mixture; based on its composition, no significant hazard to aquatic organisms is expected under normal conditions of use.

12.2 Persistence and degradability

No detailed data are available; the components are predominantly water-soluble and partly biodegradable.

12.3 Bioaccumulative potential

Owing to its water solubility, no relevant bioaccumulation potential is expected.

12.4 Mobility in soil

Water-soluble mixture; migration with water is possible.

12.5 Results of PBT and vPvB assessment

The mixture does not contain substances that are classified as PBT or vPvB.

12.6 Endocrine disrupting properties

No components with known endocrine-disrupting properties.

12.7 Other adverse effects

Avoid release of larger quantities into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/residues:

Do not discharge undiluted into surface water, soil or drains.

Disposal in accordance with Swiss waste legislation, in particular:

Technical Ordinance on Waste (TVA),

Ordinance on the Movement of Waste (VeVA),

Ordinance of the UVEK on lists for the movement of waste (LVA).

Small residual amounts diluted with water may – after consultation with the competent authority and if locally permitted – be discharged to the wastewater system.

Packaging:

Completely emptied and cleaned packaging should be recycled where possible.

Contaminated packaging must be treated in the same way as the product.

SECTION 14: Transport information

Not classified as dangerous goods for road transport (ADR/RID), sea transport (IMDG) or air transport (ICAO-TI/IATA-DGR).

SECTION 15: Regulatory information

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

Relevant EU regulations:

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Relevant Swiss regulations (non-exhaustive):

Chemicals Act (ChemG)

Chemicals Ordinance (ChemV)

Occupational health and safety legislation (e.g. ArG, VUV)

Water protection legislation

Waste legislation (TVA, VeVA, LVA)

No specific authorisation or supply restrictions (e.g. as biocidal or plant protection product) are known, provided the product is used exclusively as a technical cleaner/additive in heating and cooling systems.

The product is intended as a cleaner/additive for heating and cooling systems and is not subject to any specific authorisation requirements as a biocidal product.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

SECTION 16: Other information

This safety data sheet is based on information supplied by the manufacturer of the original product “magnetic cleaner for heating systems” and on Swiss requirements (BAG/SECO).

The company placing the product on the market is responsible for adaptation to Swiss legislation and for the accuracy of the information: IONTEQ GmbH.

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