



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Version: 5

Revised at: 05.06.2009

PowerRoll Coolant System Decalcer

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name: PowerRoll Coolant System Decalcer
Decalcified and oxidation reducer for closed water systems

Company/undertaking identification

Manufacturer/Supplier: Strub + Co. AG
Schmiertechnik
Mühlemattstrasse
6260 Reiden / Switzerland
Phone: ++41 62 785 22 22
Fax: ++41 62 785 22 33

Emergency Phone: Swiss Toxicological Information Centre, CH-8030 Zürich
Phone (Switzerland): 145, phone (international): (+41) 44 251 51 51

2. Hazards identification

Hazard designation: **C Corrosive**
R34 Causes burns
R36/37/38 Irritating to eyes, respiratory system and skin

3. Composition/information on ingredients

Chemical characterization of the ingredient:

Description: Mixture of organic and inorganic acids and esters in water

Hazard(ous) ingredient(s):

| CAS-No. | Name | Concentration | Hazard(ous) symbol(s) | R-phrases |
|-----------|------------------------------|---------------|-----------------------|-----------|
| 64-18-6 | Formic acid | < 10 % | C | R35 |
| 7664-38-2 | Phosphoric acid | < 5 % | C | R34 |
| 812-00-0 | Phosphoric acid methyl ester | < 5 % | C | R34 |

Hazard(ous) impurity(ies): None

4. First-aid measures

General information: If symptoms persist, call a doctor
On inhalation: In case of irritation of the airways, seek medical advice. Provide with fresh air.
On contact with skin: Wash off subsequently with: Soap and water
On contact with the eyes: On contact with the eyes, rinse thoroughly with plenty of water and seek medical advice
If swallowed: Rinse mouth out thoroughly with water. Administer plenty of water in small sips (dilution effect)
Self-protection of first-aiders: Note precautions for self-protection of first-aiders

5. Fire-fighting measures

Suitable extinguishing media: Foam, Dry powder, Carbon dioxide, Water spray jet

Extinguishing media which must not be used for safety reasons: Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Substances potentially set free in case of fire: Carbon monoxide, Carbon dioxide, Phosphorus oxides, Formaldehyde
Traces of other toxic substances can not be excluded



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Special protective equipment for fire fighting:

To use for fire fighting: Protective clothing, Rubber boots

Additional information:
system

Contaminated fire fighting water must not be discharged into the drainage system

6. Accidental release measures

Personal precautions:

Keep people away and stay on the upwind side. Use personal protective clothing. Wear acid-resistant boots

Environmental precautions:

Do not allow to enter drains/ surface waters/ groundwater

Methods for cleaning up / taking up:

Clean contaminated floors and objects thoroughly observing environmental regulations
Suitable material for picking up: Organic absorbent material, Universal binder, Sawdust
Suitable material for delusion or neutralization: Soda, Quicklime (Do not neutralize in closed rooms, open the windows, Carbon dioxide creation)

7. Handling and Storage

Handling:

Avoid eye and skin contact
If local exhaust ventilation impossible or insufficient, provide sufficient ventilation of the workplace

Hints for protection against fire and explosion:

Product is poorly inflammable

Storage:

Do not store together with oxidizing agents
Store only in original container in a cool place. Keep container tightly closed

8. Exposure limitation and personal protective equipment

Additional information on plant design: See section 7; no additional measures necessary

Constituents with occupational exposure limits requiring monitoring:

CAS No.: 64-18-6 Substance name: Formic acid MAK (TRGS 900): 9 mg/m3; 5ml/m3 (DFG, EU)

Personal protective equipment:

Hand protection:

Gloves

Eye protection:

Safety glasses with side shield

Respiratory protection:

Respiratory protection in case of high concentrations

Generally health and safety measures:

Soiled clothing must be changed and thoroughly cleaned
Preventive skin protection using barrier ointment
Before starting work, apply water-resistant skincare preparations

9. Physical and chemical Properties

| | | | |
|-------------------|--------------------------------|---------------------------|---------|
| Form | liquid | pH-value at 5g/l in water | 1 |
| Colour | red | Flash point | > 100°C |
| Odour | sharp, acid | Decomposition temperature | > 200°C |
| Pourpoint | < 0°C | Solvent content | 10 % |
| Density at 20°C | 1.04 g/cm ³ | | |
| Viscosity at 40°C | approx. 1-2 mm ² /s | | |
| Water solubility | soluble | | |
| Fat solubility | insoluble | | |

10. Stability and Reactivity



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No hazardous decomposition products if stored and handled as prescribed
No decomposition if used as prescribed

11. Toxicological information

Toxicity tests: No data available
General remarks: The information is derived from the properties of the individual components

12. Ecological information

Degradation potential: Part of the components are biodegradable
Further ecological information: Do not discharge product into the environment without control

13. Disposal considerations

Disposal / Waste (product): Disposal in accordance 2001/118/EG, 2001/119/EG, 2001/573/EG
List of proposed waste codes/waste designations in accordance with EWC: LVA VeVA / EAK: 07 06 01
Packages: Contaminated packages must be completely emptied and may be reused after proper cleaning

14. Transport information

Land transport (ADR/RID): UN-Nr. 3265, Label 8, C3, Packing Group III, Danger Note 8
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Formic Acid, Phosphoric Acid Solution)
Marine transport (IMDG/GGVSee): UN-Nr. 3265, Label 8, Packing Group III, EMS-Nr. F-A, S-B,
Marine Pollutant: P
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Formic Acid, Phosphoric Acid Solution)
Air transport (ICAO/IATA): UN-Nr. 3265, Label 8, Packing Group III
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Formic Acid, Phosphoric Acid Solution)

15. Regulatory information

Labelling:
Hazard(ous) symbol(s) and indication(s) of danger for dangerous substances and preparations:
C Corrosive

R-phrases:
R 34 Causes Burns
R36/37/38 Irritating to eyes, respiratory system and skin

S-phrases:
S1/2 Keep locked up and out of the reach of children
S23 Do not breathe gas/ fumes/ vapour/ spray
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible)

Water hazard class (WGK): 1 (water hazardous)



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16. Other information

- EG EINECS:** All components of this product are listed in the European Inventory of Existing Chemical Substances (EINECS)
- US TSCA:** All components of this product are listed in the Toxic Substance Control Act (TSCA) inventory with according of the Toxic Substance Control Act, 15. U.S.C. 2601 et. seq

The information in this safety data sheet is provided in accordance with the national Chemicals regulations and the EC-Directives. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant laws are complied with. The information's contained in this sheet are based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environment aspects and should not be considered as any guarantee of technical performance or suitability for particular application.