

Material Safety Data Sheet (MSDS)

according to 91/155/EEC

creation date: 1.1.2005

revision date: 19.2.2010

1. Identification of substance

Trade name: Prothermal™
Catalog number: 2601
Application of the preparation: Waterpreservative for waterbath
Distributor: Lucerna-Chem AG, Abendweg 18, CH-6006 Luzern, Switzerland
lucerna-chem@lucerna-chem.ch, Tel.: +41 (0)41-420 96 36
Emergency (outside CH): Schweizerisches Toxikologisches Informationszentrum Tel.: +41 (0)44-251 51 51
Emergency: Schweizerisches Toxikologisches Informationszentrum Tel.: 145

2. Composition/information on ingredients


Chemical characterization: Watery solution


Ingredients: Complexing agents, quaternary ammonium compounds of the general formula:

R-N⁺ (CH₃)₂-CH₂C₆H₅ - Cl

where R represents an alkyl straight chain, demineralized water.

Hazardous ingredients:

Sodiumnitrit (<230 mmol/l): CAS-Nr. 7632-00-0 EG-Index Nr. 007-010-00-4
Concentration: 1 % ≤ C < 5 % Classification:  Xn; R22

Sodiumhydroxide (<0.5 mmol/l): CAS-Nr. 1310-73-2 EG-Index Nr. 011-002-00-6
Concentration: 0,5 % ≤ C < 2 % Classification:  Xi; R36/38

3. Possible Hazards

Hazard description



Xi: Irritant

Xn: Harmful

Information concerning to particular hazards to man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed
R 36/38 Irritating to eyes and to skin

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First aid:

After skin contact: Wash with plenty of water, remove contaminated clothes.

After eye contact: Rinse with plenty of water, contact oculist.

After swallowing: Drink a lot of water, contact the doctor.

5. Measures against fire

Suitable medium for extinguishing: Water, CO₂, foam, powder.

6. Unintentional release

Use liquid binding materials. Dispose professionally.

7. Handling and storage

Handling: No special requests.

Storage: Store at +2 bis +25°C

8. Limitation to exposition and protective equipment

Protective equipment: Rubber or latex gloves, eye protection

The instructions for medical-diagnostic laboratories should be followed.

9. Physical and chemical characteristics

Form: liquid

Colour: clear blue color

pH: n.a.

Solvent: water

Additional specifications are like the specifications of watery solutions.

10. Stability and reactivity

No data available

11. Toxicology

No data available

12. Ecology

An environmental endangering cannot be excluded at an unexpert handling.

Do not let undiluted reagent arrive to waters, sewage or ground.

13. Waste disposal

There are no common regulations for the disposal of chemicals or waste products in the EC. Waste-chemicals are as a rule special waste. For the disposal the corresponding national and local restrictions must be noted.

14. Transport

The substances contained in this preparation are not listed in the Annex I of Regulation (EC) No 689/2008 and is therefore non hazardous for transport.

15. Regulations

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:

Xi: Irritant

Xn: Harmful

Hazard-determining components of labelling:

Sodiumnitrit and Sodiumhydroxide

Risk phrases:

R 22 Harmful if swallowed

R 36/38 Irritating to eyes and to skin

Safety phrases:

S1/2 Keep locked up and out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

16. Further informations

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing laws and regulations are observed by the consignee of our product at one's own risk.