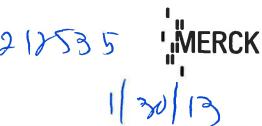
Safety Data Sheet

According to EC Directive 91/155/EEC



Date of issue: Supersedes edition of

01.04.2005 28.10.2003

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

Identification of the product

Catalogue No.:

106400

Product name:

Sodium chloride EMPROVE® Ph Eur, BP, USP

Use of the substance/preparation

Pharmaceutical production and analysis

Company/undertaking identification

Company:

Merck KGaA * 64271 Darmstadt * Germany * Phone: +49 6151 72-0

Emergency telephone No.:

Please contact the regional Merck representation

in your country.

2. Composition/information on ingredients

CAS-No.:

7647-14-5

М:

58.44 g/mol

EC-No.:

231-598-3

Formula Hill:

ClNa

Chemical formula:

NaCl

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing. After eye contact: rinse out with plenty of water with the eyelid held wide open.

After swallowing: make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:

In adaption to materials stored in the immediate neighbourhood.

Special risks:

Non-combustible.

Other information:

Prevent fire-fighting water from entering surface water or groundwater.

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6. Accidental release measures

Person-related precautionary measures: Avoid generation of dusts; do not inhale dusts.

Environmental-protection measures: Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Store protected from solvents.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection:

required when dusts are generated.

Eye protection:

required

Hand protection:

In full contact:

Glove material: Layer thickness: Breakthrough time: nitrile rubber 0.11 mm > 480 Min.

In splash contact:

Glove material: Layer thickness: Breakthrough time: nitrile rubber 0.11 mm > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatril® L (full contact), 741 Dermatril® L (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

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Physical and chemical properties

Form: solid Colour: colourless Odour: odourless

pH value at 100 g/l H2O (20 °C) 4.5-7.0 Melting point °C 801 Boiling point (1013 hPa) 1461 °C Ignition temperature not applicable Flash point not applicable **Explosion limits** lower not available upper not available Vapour pressure (865 °C) 1.3 (20 °C) 2.17

Density g/cm3 Bulk density kg/m³ ~ 1140 Solubility in 358 g/I

water

(20 °C)

10. Stability and reactivity

Conditions to be avoided no information available

Substances to be avoided

alkali metals.

Hazardous decomposition products no information available

11. Toxicological information

Acute toxicity

LD₅₀ (dermal, rabbit): >10000 mg/kg (RTECS). LD50 (oral, rat): 3000 mg/kg (RTECS).

Specific symptoms in animal studies:

Eye irritation test (rabbit): Slight irritations (IUCLID).

Subacute to chronic toxicity

Noncarcinogenic in animal experiments. No mutagenic effect in animal experiments. Mutagenicity (mammal cell test): micronucleus nagative. (IUCLID) Bacterial mutagenicity: Ames test: negative. (IUCLID) No impairment of reproductive performance suspected. No teratogenic effect in animal experiments.

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Further toxicological information

After eye contact: Slight irritations.

After swallowing of large amounts: nausea, vomiting.

Further data

No toxic effects are to be expected when the product is handled appropriately.

12. Ecological information

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments:

Concentration in organisms is not to be expected.

Ecotoxic effects:

Biological effects:

Fish toxicity: P.promelas LC₅₀: 7650 mg/l /96 h (IUCLID).

Daphnia toxicity: Daphnia magna EC₅₀: 1000 mg/l /48 h (IUCLID).

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product:

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Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol:

R-phrases:

S-phrases:

16. Other information

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Reason for alteration

Chapter 1:change in product name.

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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