



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date

28.10.2009

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

Product information

Catalogue No.:	106404
Product name:	Sodium chloride GR for analysis ACS,ISO,Reag. Ph Eur
Use of the Substance/Mixture	Reagent for analysis, Chemical production, Pharmaceutical production and analysis
Company:	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Emergency telephone:	Please contact the regional company representation in your country.
Responsible Department:	EQ-RS * e-mail: prodsafe@merckgroup.com

2. Hazards identification

This substance is not classified as dangerous according to European Union legislation.

3. Composition/information on ingredients

Formula	NaCl	CINa (Hill)
CAS-No.	7647-14-5	
EC-No.	231-598-3	
Molar mass	58,44 g/mol	

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.

After swallowing: make victim drink water (two glasses at the most). Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting

Not combustible.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

Personal precautions

Avoid inhalation of dusts.

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Environmental precautions

Do not empty into drains.

Methods for cleaning up

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. Handling and storage

Handling

Advice on safe handling

Observe label precautions.

Storage

Further information on storage conditions

Tightly closed. Dry.

Without limitations.

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.

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 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), KCL 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).

Eye protection

Safety glasses

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

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9. Physical and chemical properties

Form	solid
Colour	colourless
Odour	odourless
pH	4,5 - 7,0 at 100 g/l 20 °C
Viscosity, dynamic	no data available
Melting point	801 °C
Boiling point/boiling range	1.461 °C at 1.013 hPa
Ignition temperature	not applicable
Flash point	not applicable
Oxidizing properties	no data available
Flammability	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	1,3 hPa at 865 °C
Relative vapour density	no data available
Density	2,17 g/cm ³ at 20 °C
Bulk density	ca. 1.140 kg/m ³
Solubility/qualitative	no data available
Water solubility	358 g/l at 20 °C
Partition coefficient: n- octanol/water	no data available
Evaporation rate	no data available

10. Stability and reactivity

Conditions to avoid
no information available

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Materials to avoid

Exothermic reaction with:

Alkali metals

Hazardous decomposition products

no information available

11. Toxicological information

Acute oral toxicity

LD50 rat

Dose: 3.000 mg/kg

(RTECS)

Acute dermal toxicity

LD50 rabbit

Dose: > 10.000 mg/kg

(RTECS)

Eye irritation

rabbit

Result: slight irritation

(IUCLID)

Genotoxicity in vitro

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(IUCLID)

Ames test

Result: negative

(IUCLID)

CMR effects

Carcinogenicity:

Did not show carcinogenic effects in animal experiments.

Mutagenicity:

Animal testing did not show any mutagenic effects.

Teratogenicity:

Did not show teratogenic effects in animal experiments.

Reproductive toxicity:

No impairment of reproductive performance suspected.

Further information

Systemic effects:

After swallowing of large amounts:

Nausea, Vomiting

Further data:

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

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12. Ecological information

Ecotoxicity

Toxicity to fish

LC50

Species: Pimephales promelas (fathead minnow)

Dose: 7.650 mg/l

Exposure time: 96 h

(IUCLID)

Toxicity to daphnia and other aquatic invertebrates.

EC50

Species: Daphnia magna (Water flea)

Dose: 1.000 mg/l

Exposure time: 48 h

(IUCLID)

Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Additional ecological information

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product

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 classified as dangerous in the meaning of transport regulations.

15. Regulatory information

GHS-Labeling

Not a dangerous substance according to GHS.

CAS-No. 7647-14-5

Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

EC-No. 231-598-3

National legislation

Storage class VCI: 10 - 13 Other liquids and solids

Major Accident Hazard 96/82/EC Update: 2003

Legislation: Directive 96/82/EC does not apply

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16. Other information

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.