

4. FIRST-AID MEASURES.

Description of First Aid measures

General advice	Immediate medical attention is not required.
Skin Contact	Wash skin with water.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and afterwards drink plenty of water.
Notes to Physician	Treat symptomatically

Most Important Symptoms and Effects

Major effects of acute exposure	No information available
Major effects of chronic exposure	No information available

Medical Attention and Special Treatment	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES.

Suitable Extinguishing Media:	Use extinguisher media as for surrounding fire.
Special protective equipment for fire-fighters	Use personal protective equipment..
Precautions for fire-fighting	Not combustible.

6. ACCIDENTAL RELEASE MEASURES.

Personal Precautions:	Avoid inhalation of dust.
Environmental Precautions:	Prevent product from entering drains.
Methods for Cleaning up:	Take up dry. Forward for disposal. Clean up affected area. Avoid dust formation

7. HANDLING AND STORAGE.

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Keep container tightly closed. Keep in a dry place.
Storage Classification	13 (=Non-combustible solids, following German VCI-concept)
Recommended use	Additive for Automatic Dishwashers

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Control parameters

Occupational exposure controls

Engineering Controls:	None required under normal use conditions.
Hygiene measures	General industrial hygiene practice.

Personal Protective Equipment

Respiratory Protection:	None required under normal usage.
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Eye Protection	Safety glasses with side-shields
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Hand Protection:	Nitrile rubbers (glove thickness: 0.11mm; break through time: >480 min) following EN374, taking into consideration the exposure of chemicals given in chapter 3. For example: KCL 741 Dermatril L (KCL GmbH)
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9. PHYSICAL AND CHEMICAL PROPERTIES.

Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	Powder
Colour:	White
Odour:	None
pH	7.0 ± 0.5 (20°C; 1 %)
Melting point/range	802°C
Boiling Point/Range:	1413°C
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability Limits in Air:	
Lower Flammable / Explosive Limit in Air:	Not applicable
Upper Flammable / Explosive Limit in Air:	Not applicable
Vapour Pressure:	1.3hPa (865°C)
Vapour Density	Not relevant
Specific Gravity / Density [g/mL]:	2.17 g/cm ³ (20°C) ; bulk den:
Solubility:	Water solubility: 358 g/L (20
Fat solubility:	Not relevant
Autoignition Temperature:	Not applicable.
Viscosity:	Not relevant

OTHER INFORMATION No further information available

10. STABILITY AND REACTIVITY.

Stability

Stability Stable under normal conditions.

Reactivity Hazard

Reactivity data:	None
Hazardous Reactions:	None
Conditions to Avoid:	None known.
Incompatible Products	Alkali metals
Hazardous Decomposition Products:	None known



11. TOXICOLOGICAL INFORMATION.

PRODUCT TOXICITY DATA

LD₅₀ Oral: 3000 mg/kg (rat)
 LD₅₀ Dermal: >10000 mg/kg (rat)
 LC₅₀ Inhalation (Dust): 42000 mg/m³ (dust)
 LC₅₀ Inhalation (Vapor): No information available

ACUTE EFFECTS

Eye Irritation None expected during normal use.
 May cause eye irritation upon direct contact with eyes.

Skin Irritation None expected during normal conditions of use.

Inhalation None expected during normal conditions of use.

Ingestion Health injuries are not known or expected under normal use.

Sensitization Not expected to be a skin sensitiser.

Chronic Effects No information available.

Specific Effects

Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

Reproductive Toxicity: No information available.

Additional Toxicity Information: Information is based on available component data.

COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - with units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Sodium chloride	7647-14-5	3000 mg/kg (Rat)	10000 mg/kg (Rabbit)	42 g/m ³ (Rat) 1 h

12. ECOLOGICAL INFORMATION.

Ecotoxicity:

Ecological Information: This product does not contain surfactants. This product is not subject to Detergent Regulation 648/2004/EC.

COMPONENT TOXICITY DATA

Sodium chloride
 (7647-14-5)
Freshwater Fish
 LC50 96 h Lepomis macrochirus 5560-6080 mg/L
 LC50 96 h Lepomis macrochirus 12946 mg/L
 LC50 96 h Pimephales promelas 6020-7070 mg/L
 LC50 96 h Pimephales promelas 7050 mg/L
 LC50 96 h Pimephales promelas 6420-6700 mg/L
 LC50 96 h Oncorhynchus mykiss 4747-7824 mg/L

Water Flea
 EC50 48 h 1000 mg/L
 EC50 48 h 340.7 - 469.2 mg/L

Mobility: Not applicable.

PBT and vPvB assessment Not required

Other Information

Ozone depletion potential; ODP; Not applicable.
 (R-11 = 1)

Global Warming Potential (GWP): Not applicable.

Additional Ecological Information: Not applicable.

13. DISPOSAL CONSIDERATIONS.

Disposal Methods and Containers: Bulk quantities of product must be disposed of according to Local, State and Federal regulations.

Special Precautions for Landfill or Incineration: No information available

Contaminated Packaging: Dispose of as unused product.

EWC waste disposal No: 06 03 14
 (solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13)



14. TRANSPORT INFORMATION.

General remarks	Not classified as dangerous in the meaning of transport regulations.
ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated
IATA	Not regulated

15. REGULATORY INFORMATION.

Chemical Safety Assessment following regulation 1907/2006/EC: Not relevant.

Classification and Labelling

- The product is non-dangerous in accordance with Directive 1999/45/EC.
- The product is non-dangerous in accordance with CLP-Regulation 1272/2008/EC.

Germany, Water Endangering Classes (VwVwS):

WGK Value	1 - slightly water endangering - for bulk material, not applicable for product in domestic type pack sizes.
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16. OTHER INFORMATION.

The Product Identification Code (in Section 1) is in conformance with EN 15178 for the identification of products in emergency enquiries.

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.