

SAFETY DATA SHEET

NAME OF PRODUCT Sodium Chloride 1M, pH 8.3

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product/Catalog Number(s):

26-574

1 L bottle

Product name: Sodium Chloride 1M, pH 8.3

Synonyms: Aqueous sodium chloride solution 1M

Manufacturer: Molecular Toxicology Inc.

Address: 157 Industrial Park Drive, Boone, North Carolina, 28607

Phone: (1) 828 264 9099 (8:30 – 17:00 EST)

Fax: 828 264 0103

Emergency contact (Chemtrec): Contact 1800-424-9300 (USA) or 703 527 3887 (International) at other times
Email: chemtrec@chemtrec.com; <http://www.chemtrec.com/>

Recommended use: Sterile solution for washing, diluting bacteria and cells etc.; general laboratory reagent, no uses advised against

Restrictions on use: Not for clinical use

Section 1 notes:

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture



Caution

Physical hazards None

Health hazards Skin, eye irritant

Environmental hazards None

Hazard Statements **H313** May be harmful in contact with skin

H320 Causes eye irritation

Precautionary Statements **P302+352** IF ON SKIN: Wash with plenty of soap and water

P301+330+331 IF SWALLOWED: Rinse mouth. Do not induce vomiting

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

| Component | Purpose | CAS-No | EC-No. | Weight % |
|-----------------|---------|-----------|-----------|----------|
| Sodium chloride | Active | 7647-14-5 | | 5.9 |
| Water | Solvent | 7732-18-5 | 231-791-2 | 94.1 |

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|----------------------------|--|
| Eye Contact | Rinse eyes and under eyelids immediately with plenty of water. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. |
| Ingestion | Clean mouth with water and afterwards drink plenty of water. |
| Inhalation | Move to fresh air. |
| Protection of first-aiders | Not required |

In the event that symptoms develop or persists, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician - Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Not flammable; use media suitable for extinguishing surrounding fire.

5.2 Special hazards arising from the substance or mixture

None – boils but does not undergo thermal decomposition or produce noxious combustion products

5.3 Advice for firefighters

No special precautions or protective equipment - wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH-approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid aerosol formation.

6.2 Environmental precautions

No special precautions.

6.3 Methods and material for containment and cleaning up

Mop up spill and collect in suitable container for disposal. Rinse area with water.

6.4 Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid aerosol formation.

7.2 Conditions for safe storage, including any incompatibilities

Use general laboratory chemical storage conditions. Keep container tightly closed. Store away from direct sunlight at ambient laboratory temperature; avoid freezing. No specific incompatibilities.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials or specified occupational exposure limits.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection If splashes are likely to occur, wear safety glasses with side-shields (European standard – EN 166)

Hand Protection

Protective gloves - Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: chemical compatibility, dexterity, operational conditions, user susceptibility, e.g. sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection

Long sleeved clothing

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Respiratory Protection

Respiratory protection is not required under normal conditions of use.

Large scale/emergency use - In case of insufficient ventilation wear suitable respiratory equipment

Small scale/Laboratory use – For general chemical use, employ a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

When respiratory protection is used, a face piece Fit Test should be conducted.

Hygiene Measures - Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls - No information available.

8.3 Exposure limits

Permissible Exposure Limits and Threshold Limit Values not specified by OSHA.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------|--------------------------------|
| Appearance | Clear colorless liquid |
| Auto-ignition temperature | N/A |
| Boiling point | 100.3°C |
| Decomposition temperature | N/A |
| Evaporation Rate | (Water = 1) <1 |
| Flammability limits | Not flammable |
| Flash point | N/A |
| Formula | NaCl in water |
| Melting point | -0.3°C |
| Molecular weight | 58.44 (NaCl) |
| Odor | No odor |
| Odor threshold | No odor |
| Osmolality | 300 mOsm/L |
| pH | Neutral |
| Partition coefficient | N/A |
| Solubility in water | Miscible in all proportions |
| Specific gravity | 1.0046 at 22°C |
| Vapor density | 0.8 g/L (water) (air = 1) |
| Vapor pressure | 24 mmHg (water) |
| Viscosity | 0.89 mm ² s (water) |

N/A Not applicable

9.2 Other information

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

Hazardous Reactions do not occur under normal conditions.

10.4 Conditions to avoid

Chemically stable under conditions of storage and use.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None under normal use conditions

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product does not present an acute toxicity hazard based on known or supplied information

a) acute toxicity;

Oral Non-toxic (MLD > 5 mL/kg)

Dermal Non-toxic (MLD > 5 mL/kg)

Inhalation Not known

Toxicology data for the active ingredients

b) skin corrosion/irritation: Not believed to be a hazard based on data for NaCl

c) serious eye damage/irritation: Not believed to be a hazard based on data for NaCl

d) respiratory sensitization Not hazardous

e) skin sensitization Not believed to be a hazard based on data for NaCl

Chronic effects

f) germ cell mutagenicity: No evidence

g) carcinogenicity: No evidence

h) reproductive toxicity: No evidence

Target organ

i) target organs: No evidence

j) aspiration hazard Not hazardous

SECTION 12. ECOLOGICAL INFORMATION

Overview

Ecotoxicity effects - Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability Dissipates in water

Mobility Expected to have high mobility in soil without adsorption or accumulation

Bioaccumulation Not anticipated

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Molecular Toxicology
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Ecotoxicity Not anticipated to be toxic; refer to data on the active ingredient

Other adverse effects

Endocrine Disruptor Information - This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant - This product does not contain any known or suspected substance

Ozone Depletion Potential - This product does not contain any known or suspected substance

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with National, Federal and Local regulations. No special considerations.

SECTION 14. TRANSPORT INFORMATION

Not regulated by IATA or US DOT, not listed by UN.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All components in this product are on the TSCA (Toxic Substances Control Act) inventory

EU Regulations

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2 Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Molecular Toxicology, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.moltox.com and/or the invoice or packing slip for additional terms and conditions of sale.