

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: \$\$586: 2008 (2014)

Issue Date 22-Mar-2023 Revision Date 28-Mar-2023 Version 2.4

Section 1: IDENTIFICATION

Product identifier

Product Name Sodium Chloride Standard Solution

Other means of identification

Product Code(s) 2307449

Proper shipping name Not regulated

Safety data sheet number M00613

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Water Analysis. Standard solution.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Manufacturer Address Supplier

Hach Company, P.O.Box 389, Loveland, HACH SEA Headquarters,

CO 80539, USA, +1(970) 669-3050 1 Science Park Road, #05-09, East Wing, The Capricorn, Singapore Science Park II,

Singapore 117528, TEL (65) - 62659381

Emergency telephone number

Chemtrec 1-800-424-9300

Section 2: HAZARDS IDENTIFICATION

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

EN / SGPE Page 1/12

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 2/12

Other Hazards Known

None

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Mixture

Substance

Not applicable

<u>Mixture</u>

Chemical nature Aqueous solution of inorganic salts.

Section 4: FIRST AID MEASURES

Description of first aid measures

General advice No hazards which require special first aid measures. Use first aid treatment according to the

nature of the injury.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Section 5: FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products This material will not burn.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

EN / SGPE Page 2/12

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 3 / 12

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Biological occupational exposure limits

Appropriate engineering controls

Engineering Controls Showers

Snowers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure

adequate ventilation.

Hand Protection Wear suitable gloves.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protectionNo special protective equipment required.

EN / SGPE Page 3/12

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 4/12

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Liquid

Appearance Odor

aqueous solution

Odorless

Color colorless

Odor threshold No information available

Property Values Remarks • Method

Molecular weight No data available

pH 7.0 @ 20 °C

Melting point / freezing point \sim -1 °C / 30.2 °F

Initial boiling point and boiling range ~ 100 °C / 212 °F

Evaporation rate 1 (water = 1)

Vapor pressure 17.477 mm Hg / 2.33 kPa at 20 °C / 68 °F

Relative vapor density 0.62

Specific gravity - VALUE 1 1.01

Partition coefficient Not applicable

Soil Organic Carbon-Water Partition

Coefficient

Not applicable

Autoignition temperature No data available

Decomposition temperatureNo information available

Dynamic viscosity $\sim 1 \text{ cP (mPa s)}$ at 20 °C / 68 °F

Kinematic viscosity $\sim 0.99 \text{ cSt (mm}^2\text{/s)}$ at 20 °C / 68 °F

Solubility(ies)

Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Solubility in other solvents

| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F |
|-----------------------------|---------|-------------|---------------|
| Most Polar Organic Solvents | Soluble | > 1000 mg/L | 25 °C / 77 °F |
| Aqueous alkaline solutions | Soluble | > 1000 mg/L | 25 °C / 77 °F |

Other information

EN / SGPE Page 4/12

Product Code(s) 2307449 Product Name Sodium Chloride Standard Solution

Issue Date 22-Mar-2023 Revision Date 28-Mar-2023

Version 2.4 **Page** 5 / 12

Metal Corrosivity

Steel Corrosion RateNot applicableAluminum Corrosion RateNot applicable

Volatile Organic Compounds (VOC) Content

Explosive properties

Upper explosion limitNot applicableLower explosion limitNot applicable

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density Not applicable

Section 10: STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products

No information available.

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

EN / SGPE Page 5/12

Product Name Sodium Chloride Standard Solution Revision Date 28-Mar-2023

Page 6 / 12

Product Information

No known effect based on information supplied. Inhalation

No known effect based on information supplied. Eye contact

Skin contact No known effect based on information supplied.

Ingestion No known effect based on information supplied.

Symptoms No information available.

Acute toxicity

Based on available data, the classification criteria are not met

Mixture

No data available.

Ingredient Acute Toxicity Data

No data available.

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

| ATEmix (oral) | No information available |
|-------------------------------|--------------------------|
| ATEmix (dermal) | No information available |
| ATEmix (inhalation-dust/mist) | No information available |
| ATEmix (inhalation-vapor) | No information available |
| ATEmix (inhalation-gas) | No information available |

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Skin Corrosion/Irritation Data

No data available.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Eye Damage/Eye Irritation Data

No data available.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Sensitization Data

No data available.

EN / SGPE Page 6/12

Product Name Sodium Chloride Standard Solution Revision Date 28-Mar-2023

Page 7 / 12

STOT - single exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

Carcinogenicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Carcinogenicity Data

No data available.

Legend

| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
|---|----------------|
| IARC (International Agency for Research on Cancer) | Does not apply |
| NTP (National Toxicology Program) | Does not apply |
| OSHA | Does not apply |

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro Data

No data available.

Substance invitro Data

No data available.

Mixture invivo Data

No data available.

Substance invivo Data

No data available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Mixture

No data available.

Ingredient Reproductive Toxicity Data

No data available.

Aspiration hazard

Based on available data, the classification criteria are not met.

EN / SGPE Page 7/12

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 8 / 12

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Based on available data, the classification criteria are not met.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

Mixture

Aquatic Acute Toxicity
No data available.

Aquatic Chronic Toxicity

No data available.

Substance

Aquatic Acute Toxicity

No data available.

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Mixture

No data available.

Bioaccumulation

Mixture

No data available.

Partition coefficient Not applicable

Mobility

Soil Organic Carbon-Water Partition Coefficient Not applicable

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION

Note: No special precautions necessary.

IMDG

UN number or ID number Not regulated

EN / SGPE Page 8/12

Product Name Sodium Chloride Standard Solution **Revision Date** 28-Mar-2023

Page 9/12

Transport hazard class(es)
Packing Group
Marine pollutant
Not applicable
Special precautions for user
Not applicable

<u>ADR</u>

UN number or ID number
Proper shipping name
Transport hazard class(es)
Packing Group
Environmental hazards
Not regulated
Not regulated
Not applicable

Special precautions for user None

IATA

UN number or ID number
Transport hazard class(es)
Packing group
Environmental hazards
Special precautions for user

Not regulated
Not regulated
Not applicable
None

Additional information

Section 15: REGULATORY INFORMATION

Regulatory information

Singapore

Arms and Explosives Act

Not applicable.

Chemical Weapons Prohibition Act

Not applicable.

Environmental Protection and Management (Hazardous Substances) Regulations

Not applicable.

Environmental Public Health Act

Dispose of waste product or used containers according to local regulations.

Fire Safety (Petroleum and Flammable Materials) Regulations

Not applicable.

Hazardous Waste (Control of Export, Import and Transit) Act

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Misuse of Drugs Act

Not applicable.

POISON

Not applicable.

Strategic Goods (Control) Act

Not applicable.

Workplace Safety and Health Act

EN / SGPE Page 9/12

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 10 / 12

Comply with the health and safety at work laws.

Pre-employment screening and appropriate health surveillance

Not applicable

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Complies **TSCA** Complies **DSL/NDSL EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL - Existing substances** Complies Complies **PICCS** Complies TCSI Complies **AICS** Complies **NZIoC**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

Section 16: OTHER INFORMATION

Classification Guidance Used

Product is a mixture classified and labelled according to EC1272/2008.

Key or legend to abbreviations and acronyms used in the safety data sheet

SVHC: Substances of Very High Concern for Authorization:

Key literature references and sources for data

ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA ERMÀ (New Zealands Environmental Risk Management Authority)

EN / SGPE Page 10/12

Product Code(s) 2307449 Issue Date 22-Mar-2023

Version 2.4

Product Name Sodium Chloride Standard Solution

Revision Date 28-Mar-2023

Page 11 / 12

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank) **HSDB**

INERIS (The National Industrial Environment and Risks Institute) **INERIS IPCS INCHEM** IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) **IUCLID** NITE Japan National Institute of Technology and Evaluation (NITE)

NIH NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) LOLI

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

Immediately Dangerous to Life or Health NIOSH IDLH

OSHA (Occupational Safety and Health Administration of the US Department of Labor) **OSHA**

PEEN (Pan European Ecological Network) PEEN

RTECS (Registry of Toxic Effects of Chemical Substances) **RTECS** SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

The Finnish Environment Institute (SYKE) SYKE USDA (United States Department of Agriculture) **USDA USDC** USDC (United States Department of Commerce)

WHO WHO (World Health Organization)

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Ceiling Ceiling Limit Value Maximum Allowable Concentration

Χ Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

Skin designation Skin sensitization SKN* SKN+ Respiratory sensitization Hazard Designation RSP+ С Carcinogen R Reproductive toxicant

M mutagen

Hach Product Compliance Department **Prepared By**

22-Mar-2023 **Issue Date**

Revision Date 28-Mar-2023

Restrictions on use For Laboratory Use Only.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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Page 11/12 EN / SGPE

Product Name Sodium Chloride Standard Solution Revision Date 28-Mar-2023 Page 12 / 12

End of Safety Data Sheet

EN / SGPE Page 12/12