

Safety Data Sheet

Sodium Chloride Solution, 20-25%

IDENTIFICATION

Sodium Chloride Solution, 20-25% Product identifier

Product code 520-USA-TMI

Other means of identification: Salt, Saltwater, Brine, Halite, Saline

Textile dying operations; production of sodium chlorate Recommended use

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information:

Supplier name Trinity Manufacturing, Inc.

Address 11 EV Hogan Drive, PO Box 1519

Hamlet, NC, 28345, USA

Telephone 800-632-6228 or 910-419-6551 (Customer Service)

E-mail sds@trinitymfg.com

Emergency phone number FOR CHEMICAL EMERGENCY (Spill, Leak, Fire, Exposure, or Accident)

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 (24/7)

Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

HAZARDS IDENTIFICATION

GHS Classification Based on available data, this material is not considered a hazardous chemical or mixture per

classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Signal Word None

GHS Hazard Statements

Not classified as a hazardous chemical or mixture Physical hazards Health hazards Not classified as a hazardous chemical or mixture

Environmental hazards Not classified as an environmentally hazardous substance

GHS Precautionary Statements

There are no Precautionary Statements assigned.

Label Elements None required

Signal word None

Unknown acute toxicity 0% of the mixture consists of ingredients of unknown toxicity.

Hazard(s) Not Otherwise classified (HNOC)

None

Supplemental Information Chloride ions increase the conductivity of water and accelerate corrosion on metal objects

such as pumps and infrastructure. Brine solutions are slowly, but persistently corrosive to

Dispose of contents/container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name and Synonyms	CAS Number	% by Weight
Sodium Chloride	Salt, Saltwater, Brine, Halite, Saline	7647-14-5	20 - 25
Water		7732-18-5	75 - 80

4. FIRST AID MEASURES

Inhalation No effects expected. If inhalation occurs and you feel unwell, move to fresh air.

Skin contact Irrigate with water. If irritation occurs, protect skin from further contact.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If irritation develops and persists, get medical attention.

Ingestion No effect expected. Rinse mouth. Provide fluids if thirsty. If large amounts are ingested, get

medical advice/attention.

Most important symptoms/effects,

acute and delayed

Direct contact with eyes may cause temporary irritation and redness to conjunctiva. Direct contact with skin may cause redness or dry skin. Inhaling mists or vapors of this material may cause mild respiratory irritation. Ingesting may cause increased thirst. Ingesting large amounts can cause electrolyte imbalance. No delayed/chronic effects have been identified.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically. Treatment for overexposure should be directed at controlling the symptoms and clinical condition of the patient. Unless symptoms reappear, no further treatment is required.

Notes to Physician This is a concentrated salt solution of sodium chloride. This material is recognized as non-

toxic. Health effects are typically reversible within the day of exposure. Correct any

fluid/electrolyte imbalance for large ingestions.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Does not burn. Use extinguishing agents suitable for surrounding fire.

Unsuitable extinguishing media No information available.

Specific hazards arising from the substance or mixture

Hazardous combustion products: Hydrogen chloride gas, Sodium oxides.

Special protective equipment and precautions for firefighters

Wear NIOSH-approved self-contained breathing apparatus pressure-demand,

precautions for firefighters and full protective gear.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Product is not combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Handle in accordance with good industrial hygiene and safety practice. As a precaution, avoid contact with skin and eyes. Use personal protective equipment. See section 8 of the SDS for personal protection.

Methods and materials for Containment and cleaning Up

Stop leak if possible without personal risk. Mop up or absorb in any available absorbent. Liquid material may be removed with a properly rated vacuum truck. Collect spilled material in appropriate container for disposal. Small amounts of residual can be flushed to sewer with plenty of water.

Environmental precautions

Avoid liquid entering sanitary sewer or storm drains or other waterways. Small amounts of residue may be flushed to sewer with plenty of water. Section 12 has additional information.

7. HANDLING AND STORAGE

Precautions for safe handling Handle in accordance with good industrial hygiene practice. Avoid contact with skin and

eyes. Wash after handling. Wear personal protective equipment as described in Section 8.

Conditions for safe storage Store at ambient temperature and pressure. Keep in properly labeled and closed containers.

Keep separate from fresh water supply or outlets. Maintain good housekeeping.

Incompatibilities or Materials to Avoid None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits
No occupational exposure limits have been established for this material or its

components.

Non-Regulatory exposure limits This product does not contain any components that have advisory occupational

exposure limits.

Biological limit values No biological exposure limits have been established for sodium chloride.

Appropriate engineering controls

No airborne limits have been established for this product. Ensure that suitable eyewash

flushing facilities are proximal to the workstation location.

Individual protection measures:

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

Skin and body protection Standard industrial work clothes or coveralls, and safety footwear are minimum protection.

Hand protection Wear chemical resistant gloves when handling product.

Protective material types Butyl rubber, Natural rubber, Neoprene, Nitrile, Vinyl.

Respiratory protection Under normal conditions, no respiratory protection is necessary. A NIOSH-approved

respirator with N95 cartridges may be worn to minimize exposure to nuisance mists or

vapors.

General hygiene

considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene

measures, such as washing with soap after handling the material and before eating, drinking,

and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

Appearance Clear to opaque (cloudy white)

Color Clear, colorless

Odor Salty

Odor threshold No data available

pH 6.6 – 8.5 typical; pH 10 for electrolyzer-only feed

Melting point/freezing point -21 °C to 15.5 °C (-6 °F to 60 °F)

Initial boiling point/boiling range > 100 °C (212 °F)

Flash point

Evaporation rate

No data available

Flammability (solid, gas)

Lower Flammability limit

Upper Flammability limit

Not flammable

Not flammable

Vapor pressure No data available
Vapor density (air = 1) No data available

Relative density (water = 1) 20% concentration 1.152 specific gravity @ 15.5 °C (60 °F) 25% concentration 1.193 specific gravity @ 15.5 °C (60 °F)

Solubility(ies):

Solubility in water 31.6 g/100 mL @ 0 °C (32 °F)

Partition coefficient No

(n-octanol/water)

Not applicable

Auto-ignition temperature Not applicable

Decomposition temperature Not data available

Viscosity No data available

Other information:

Weight per U.S. gallon 20% concentration 9.594 lbs @ 15.5 °C (60 °F) 1.925 lbs salt/gallon water

25% concentration 9.935 lbs @ 15.5 °C (60 °F) 2.491 lbs salt/gallon water

Flammability class (NFPA) Not flammable Molecular formula $Na^+CI + H_2O$

Molecular weight 58.44 g/mol (sodium chloride)
Percent volatile 100 % (water component)

VOC (Weight %) 0 %

10. STABILTY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal temperatures and pressures.

Possibility of hazardous reactions Hazardous polymerization will not occur. Hydrogen chloride gas is generated if mixed with a

concentrated nonvolatile acid such as sulfuric acid.

Conditions to avoid: Brine solution will slowly corrode metal in the presence of air.

Hazardous decomposition products (produced as a result of use, storage, spill and heating)

When heated above 801 °C (1474 °F), will emit hydrogen chloride gas and sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure, including signs and symptoms related to the physical, chemical, and toxicological characteristics:

Skin contact Prolonged and repeated skin contact may cause redness and dry skin.

Eye contact Direct contact with eyes may cause mild irritation.

Inhalation Prolonged inhalation may cause slight respiratory tract irritation.

Ingestion May cause increased thirst. Massive ingestion may cause fluid/electrolyte imbalance,

nausea, vomiting, diarrhea, weakness headache convulsions, and coma.

Component Toxicity Data:

Component	LD ₅₀ - Dermal	LD ₅₀ - Oral	LC ₅₀ - Inhalation
Sodium Chloride	> 10,000 mg/kg (Rabbit)	3550 mg/kg (Rat)	42 mg/L (Rat) 1-hr, aerosol
Water	Not listed	> 90 mL/kg (Rat)	Not listed

Information on toxicological effects:

Acute Toxicity At reasonably possible exposures, sodium chloride is relatively not toxic to human health. It

> is a normal constituent of the body. This solution acts osmotically to remove water from the local tissue causing dehydration and/or electrolyte imbalance. Dried residue may be gritty

and cause mechanical irritation.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation that is reversible within the day of

exposure.

Serious eye damage/eye

Irritation

Direct contact with eyes may cause temporary irritation that is reversible within the day of

exposure.

Respiratory sensitization Not expected.

This product is not expected to cause skin sensitization in humans. Skin sensitization

Carcinogenicity Not classified as carcinogenic by IARC, U.S. NTP, U.S. OSHA, or ACGIH.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity

Single exposure

Not classified.

Specific target organ toxicity

repeated exposure

Not classified.

Aspiration hazard Not classified. Chronic effects None known.

Human health impacts Sodium in drinking water is a health concern for individuals restricted to low-sodium diets due

to hypertension (high blood pressure).

12. ECOLOGICAL INFORMATION

Not classified as environmentally hazardous. However, does not exclude the possibility that Ecotoxicity:

large or frequent spills can have a harmful or damaging effect on the environment by

dehydrating animal and vegetative matter.

Aquatic toxicity responses (Sodium chloride, CAS 7647-14-5):

Test	Result	Species	Other
LC ₅₀	5840 mg/L	Lepomis Machrochirus (Bluegill fish)	96 hour
LC ₅₀	5480 mg/L	Daphnia magna (Water flea)	48 hour
EC ₅₀	2430 mg/L```	Algae	120 hour
NOEC/LOEC	5700 mg/L	Pimephales promelas (Fathead minnow)	7 day, biomass

Persistence This material not classified as persistent in the environment.

Biodegradation This material is inorganic and not subject to biodegradation. Sodium chloride's high solubility

> renders it very mobile, while its particle density makes it sink to the bottom of a surface waterbody. Its vapor pressure and Henry's Law constant indicate that it does not volatilize

from air or water and moist soil surface. Sodium chloride may leach from soil into

groundwater.

Bioaccumulative potential This material has not been tested, but based on the components, it is believed not to

bioconcentrate.

Partition coefficient n-octanol /water (log Kow)

Not available.

Mobility in soil Very high. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected.

13. DISPOSAL CONSIDERATIONS

Disposal instructions Reuse or reprocess, if possible. Do not allow this material to drain into sewers or water

supplies. Do not contaminate ponds, waterways or ditches with product. Dispose of contents

in accordance with local, state, and federal regulations.

Hazardous waste code This material is not a listed or characteristic hazardous waste. However, processing, use or

contamination of this product may change the waste management options.

Waste from residues/unused Dispose of in accordance with local, state, and federal regulations.

Contaminated packaging Small containers should be emptied to the extent practical and disposed as ordinary trash.

14. TRANSPORT INFORMATION

US DOT (Highway/Rail)

Not regulated.

IATA (Air)

Not regulated.

IMO/IMDG (Water)

Not regulated.

15. REGULATORY INFORMATION

U.S. federal regulations:

OSHA regulatory status: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA Sections 102a/103, EPCRA, Hazardous Substance List (40 CFR 302.4), Reportable Quantity

Not listed.

SARA Section 302, Extremely Hazardous Substance (EHS) Emergency Notification and Planning (40 CFR 355.30)

Not regulated.

SARA Section 302, Extremely Hazardous Substance (40 CFR 355, Appendix A)

Not listed.

SARA Section 311/312, Hazardous Chemical Reporting (40 CFR 370)

Not regulated.

SARA Section 313, Toxic Release Reporting (40 CFR 372.65)

Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D)

Not regulated.

Clean Air Act (CAA) Section 112(b) Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations:

Not listed US. Massachusetts Right-To-Know (RTK) - Substance List

Not listed US. New Jersey Worker and Community Right-to-Know Act

Not listed US. Pennsylvania RTK - Hazardous Substances

Not listed US. Rhode Island RTK

Not listed US. California Proposition 65

International Inventories:

Country or region	Inventory name		On inventory (yes/no)*
Australia	AICS	Australian Inventory of Chemical Substances	Yes
Canada	DSL	Domestic Substances List	Yes
Canada	NDSL	Non-Domestic Substances List	No
China	IECSC	Inventory of Existing Chemical Substances in China	Yes
Europe	EINECS	European Inventory of Existing Commercial Chemical Substances	Yes
Europe	ELINCS	European List of Notified Chemical Substances	No
Japan	ENCS	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	ECL	Existing Chemicals List	Yes
New Zealand	NZIoC	New Zealand Inventory	Yes
Philippines	PICCS	Philippine Inventory of Chemicals and Chemical Substances	Yes
Taiwan	NECI	National Existing Chemical Inventory	Yes
United States & Puerto Rico	TSCA	Toxic Substances Control Act Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION

Version 6 date: February 19, 2018

Revision history:

05-22-15 Initial version

12-07-15 Reformatted and classified to GHS 04-14-16 Section 9: Modified pH information

04-27-16 Footer: Corrected Date Error in Footer

07-14-16 Section 1: Added Other Means of Identification to SDS

02-19-18 SDS reviewed with no changes

NFPA rating:



NFPA Hazard Scale: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists CAS Chemical Abstracts Service CERCLA Comprehensive Environmental Response, Compensation, and Liability Act CFR Code of Federal Regulations CHEMTREC Chemical Transportation Emergency Center EC ₅₀ Half Maximal Effective Concentration - concentration of a material in water, a single dose which is expected to cause a biological effect on 50% of a group of test species. EPCRA Emergency Planning and Community Right-to-Know GHS Globally Harmonized Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMO International Maritime Organization IMDG International Maritime Dangerous Goods LC ₅₀ Lethal Concentration - median dose at which 50% of test animals die from inhalation LD ₅₀ Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure LOEC Lowest Observable Effect Concentration NIDSH National Fire Protection Association NIOSH National Institute of Occupational Safety and Health NOAEL No Observable Adverse Effect Level NOEC No Observed Effect Concentration NTP National Toxicology Program OSHA Occupational Health and Safety Administration PPE Personal Protective Equipment SARA Superfund Amendments and Reauthorization Act SDS Safety Data Sheet TSCA United States Department of Transportation		
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SDS Safety Data Sheet TSCA Toxic Substances Control Act	PPE	
TSCA Toxic Substances Control Act	SARA	Superfund Amendments and Reauthorization Act
	SDS	Safety Data Sheet
US DOT United States Department of Transportation	TSCA	Toxic Substances Control Act
	US DOT	United States Department of Transportation

WARRANTY

Notice: The information above is believed to be accurate and represents the best information currently available to us. Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.