SAFETY DATA SHEET

Revision Date 07-Mar-2023 **Version** 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Saturated Sodium Chloride Treated Brine

Other means of identification

Product Code(s) LCM BRINE
UNID No N/A

Recommended use of the chemical and restrictions on use

Recommended Use Industrial & Oilfield applications
Uses Advised Against None known

Details of the supplier of the safety data sheet

Manufacturer Address Texas Brine, LLC.
4800 San Felipe St.
Houston, Texas 77056

Emergency telephone number

Company Phone Number 713-664-5711
Emergency Contact: CHEMTREC: +1-703-741-5970 (GLOBAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS Label elements, including precautionary statements

Warning

Hazard Statements
Causes eye irritation

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

Appearance	Physical state	Odor
Hazy	Liquid	Salty

Unknown acute toxicity 25% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-100
Sodium Chloride	7647-14-5	10-30

This product may contain trace concentrations of petroleum hydrocarbon constituents, including benzene.

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. If a contact lens is present, DO NOT delay flushing or attempt to remove the lens. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Get medical attention if irritation persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Keep at rest in a position comfortable for breathing.

Ingestion Never give anything by mouth to an unconscious person. Drink plenty of water. Induce vomiting, but only if victim is fully conscious. If large quantity is consumed, seek medical attention or toxicity center immediately.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Keep patient under observation. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media None known.

Specific hazards arising from the chemical Negligible fire hazard.

Hazardous Combustion Products None.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters
Fire-Fighters should wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Environmental Precautions

Environmental Precautions Keep out of waterways. Brine Solution (salt water) may be fatal to freshwater species. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and Materials for Containment and Cleaning Up

Methods for Containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for Cleaning Up Use mechanical means such as pumps and absorbent materials. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Brine Solution causes corrosion of metal components. Dike and vent storage tank.

Incompatible products Strong mineral acids. Sulfuric acid. Nitric Acid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure controls

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields or Tightly fitting safety goggles.

Skin and body protection Chemical resistant. Skin and body protection. Rubber or neoprene footwear. Impervious clothing materials such as rubber, neoprene, nitrile or polyvinyl chloride. Wear liquid proof rubber or neoprene gloves.

Respiratory protection Not normally required under normal use. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Avoid creation of mist or spray.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Liquid		
Appearance	Hazy	**Odor**	Salty
Color	No data available	**Odor Threshold**	No data available

Property	**Values**	**Note • Method**
pH @ 20 °C	8.5 - 11.2	Estimated value(s)
Melting/freezing point	No information available	Estimated value(s)
Boiling point/boiling range	103°C/217°F	Estimated value(s)
Flash Point	Non Flammable	
Evaporation rate	N/A	Estimated value(s)

Flammability (solid, gas)	No data available	Estimated value(s)
Flammability Limits in Air		
Upper Flammability Limit	No data available	
Lower Flammability Limit	No data available	
Vapor pressure	No data available	Estimated value(s)
Vapor density	N/A	Estimated value(s)
Specific Gravity	1.17 - 1.20	Estimated value(s)
Water solubility	No data available	Estimated value(s)
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	Estimated value(s)
Autoignition temperature	No data available	Estimated value(s)
Decomposition temperature	No data available	Estimated value(s)
Viscosity, kinematic	No data available	Estimated value(s)
Viscosity, dynamic	No data available	Estimated value(s)
Explosive properties	No data available	
Oxidizing Properties	No data available	

Other information

Softening point	No data available
Molecular Weight	No data available
VOC Content	No data available
Density	No data available
Bulk Density	No data available

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Not expected under recommended storage conditions.

Conditions to Avoid
None known based on information supplied.

Incompatible Materials
Strong mineral acids. Sulfuric acid. Nitric Acid.

Hazardous Decomposition Products
Hydrogen chloride gas is released on contact with strong mineral acids.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact	Contact with eyes may cause irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Inhalation	May cause irritation of respiratory system.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Serious salt poisonings in humans have occurred from both accidental and deliberate ingestion.

Information on toxicological effects

Symptoms No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No data available.

Mutagenic Effects No data available.

Carcinogenicity No data available.

Reproductive Toxicity No data available.

Specific target organ systemic toxicity (single exposure) No information available.

Specific target organ systemic toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 25% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 12000 mg/kg

LD50 Oral (mg/kg) 12005 mg/kg (rat) Estimated

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium Chloride 7647-14-5	-	5560 - 6080 mg/L: 96 h Lepomis macrochirus LC50 flow-through 12946 mg/L: 96 h Lepomis macrochirus LC50 static 6020 - 7070 mg/L: 96 h Pimephales promelas LC50 static 7050 mg/L: 96 h Pimephales promelas LC50 semi-static 6420 - 6700 mg/L: 96 h Pimephales promelas LC50 static 4747 - 7824 mg/L: 96 h Oncorhynchus mykiss LC50 flow-through	1000 mg/L: 48 h Daphnia magna EC50 340.7 - 469.2 mg/L: 48 h Daphnia magna EC50 Static

Persistence and degradability No data available.

Bioaccumulation No data available.

Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

Harmonized Tariff Schedule / Schedule B

HTS/Schedule B Code 2501.00.0000

DOT	Not regulated.
UNID No	N/A
TDG	Not regulated.
MEX	Not regulated.
ICAO	Not regulated.
ICAO/IATA	Not regulated.
IMDG/IMO	Not regulated.
RID	Not regulated.
ADR/RID	Not regulated.
ADN	Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA	-
DSL/NDSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-

Legend:

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
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product is not a substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). This product may contain trace amounts of substances regulated as pollutants under the Clean Water Act, as detailed in Section 3 herein.

CERCLA

This material, as supplied, is not a substance regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA)(40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. This material may contain trace amounts of substances regulated as hazardous substances under CERCLA, as detailed in Section 3 herein.

U.S. State Regulations

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

Prepared By

EHS Department
Texas Brine, LLC.
4800 San Felipe St.
Houston, Texas 77056

Revision Date 07-Mar-2023

Reason for Revision: SDS sections updated 2, 16

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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