SAFETY DATA SHEET

Revision Date 14-Oct-2014 **Version** 1

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

Product identifier
Product Name Salt, Sodium Chloride

Other means of identification
Product Code(s) SALT, SODIUM CHLORIDE
Synonyms Industrial Grade Sodium Chloride

Recommended use of the chemical and restrictions on use
Recommended Use Industrial (not for food or food contact use).
Uses Advised Against No information available

Details of the supplier of the safety data sheet
Manufacturer Address United Salt Corporation
4800 San Felipe St.
Houston, TX 77056

Emergency telephone number
Company Phone Number 713-877-2677
Emergency Contact: CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 2B.

GHS Label elements, including precautionary statements

Emergency Overview

Warning

Hazard Statements
Causes eye irritation

Appearance White, crystalline. **Physical state** Solid. **Odor** Odorless.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/ attention

General Hazards Although not required to be classified under GHS, this product has been self-classified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Industrial Grade Sodium Chloride.

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium Chloride	7647-14-5	100	*

*** Yellow prussiate of soda in trace amounts is used as an anti-caking agent in the sized salt.**

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact Burning feeling and temporary redness. May cause irritation and redness. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If symptoms persist, call a physician.

Skin contact May cause dryness to skin. Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Irritating to mucous membranes. May cause throat irritation. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Rinse mouth with water. If symptoms persist, call a physician. Not intended for human or animal consumption.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms No information available.

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 Material is non-flammable. Use extinguishing measures that are appropriate to local circumstances and the 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 Carbon monoxide. Carbon dioxide (CO_2).

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

Protective Equipment and Precautions for Firefighters
As in any fire, 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

Personal Precautions Use personal protective equipment. Avoid dust formation. Avoid contact with the skin and the eyes.

Other information See Section 12 for additional information.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and Materials for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Avoid generation and spreading of dust.

Methods for Cleaning Up Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products Bromine Trifluoride, Lithium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Treat as a nuisance dust.

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems. Ensure adequate ventilation to remove vapors, fumes, dust, etc. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. 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. for dusty conditions.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear latex or Nitrile gloves.

Respiratory protection Effective dust mask. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state	Solid.		
Appearance	White, crystalline.	**Odor**	Odorless.
Color	No information available	**Odor Threshold**	No information available

Property	Values	Note • Method
pH	No information available	
Melting/freezing point	800 °C / 1472 °F.	
Boiling point/boiling range	1413 °C / 2575 °F.	
Flash Point	No information available	
Evaporation rate	N/A	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limit	No data available.	
Lower Flammability Limit	No data available.	
Vapor pressure	1 MM@ 855 deg	
Vapor density	N/A	
Specific Gravity	2.165	
Water solubility	Appreciable (26.43 % by weight at 20C)	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Viscosity, dynamic	No information available	
Explosive properties	No information available.	
Oxidizing Properties	No information available	

Other information

Softening point	No information 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 normal conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
No information available.

Incompatible Materials
Bromine Trifluoride, Lithium.

Hazardous Decomposition Products
When heated to decomposition (above 1413 C) may emit toxic fumes of Na_2O and Cl_2.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact May cause irritation.
Skin contact Irritating to skin. Prolonged contact may cause redness and irritation.
Inhalation May cause irritation of respiratory tract. Inhalation of dust in high concentration may cause irritation of respiratory system.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Chloride 7647-14-5	= 3 g/kg (Rat)	= 10 g/kg (Rabbit)	> 42 g/m^3 (Rat) 1 h

Information on toxicological effects

Symptoms No information available.

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

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

Reproductive Toxicity No information available.

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

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

Target Organ Effects Skin, Eyes, Gastrointestinal tract (GI).

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

LD50 Oral (mg/kg) 3000 mg/kg (rat) Estimated

LD50 Dermal 10000 mg/kg (rat) Estimated

LC50 Inhalation (DUST) 17572 mg/l (mist) (dust) mg/m^3 4 hour 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	-	4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static 12946: 96 h Lepomis macrochirus mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static	340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static 1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Harmonized Tariff Schedule / Schedule B

HTS/Schedule B Code 2501.00.0000

DOT Not regulated.

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	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances 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.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information
EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

NFPA	**Health Hazard** 0	**Flammability** 0	**Instability** 0	**Physical and chemical hazards** -
HMIS	**Health Hazard** 1	**Flammability** 0	**Physical Hazard** 0	**Personal protection** X

Technical Contact
Tom Ellis
Technical Manager
7901 FM 1405
Baytown, Texas 77523
Office: 281-303-1101 ext 104

Prepared By
HSE Department
United Salt Corporation
4800 San Felipe St.
Houston, TX 77056

Revision Date 14-Oct-2014

Revision Note

Reason for Revision: GHS Classification

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.

end