US SALT LLC

SAFETY DATA SHEET

1. Product and Company Identification

Product Identifier	Sodium Chloride (Salt) – Water Conditioning
Other means of identification	
Synonyms	Superior Crystal Water Softener Pellets ResinGard Water Softener Salt Pellets Superior Rust Free Water Softener Salt Pellets
Recommended Use(s)	General industrial and water softening/conditioning purposes
Recommended Restrictions	None Known
Manufacturer	US Salt LLC 3580 Salt Point Road Watkins Glen, NY 14891 Phone: 607-535-2721
Emergency Telephone Number	CHEMTREC (800) 424-9300

2. Hazard(s) Identification

Physical Hazards	Not Classified
Health Hazards	Not Classified
Environmental Hazards	Not Classified
OSHA Defined Hazards	Not Classified
Label Elements	
Hazard Symbol	None
Signal Word	None
Hazard Statement	The product does not meet the criteria for classification
Precautionary Statement	
Prevention	Observe good industrial hygiene practices
Response	Wash hands after handling
Storage	Store away from incompatible materials
Disposal	Dispose of waste and residues in accordance with local authority requirements
Hazard(s) not otherwise Classified (HNOC)	None Known

3. Composition / Information on Ingredients

Salt and/or Salt Mixtures Composition	The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

4. First Aid Measures

Inhalation	Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special Treatment needed	Treat symptomatically

5. Fire Fighting Measures

Suitable extinguishing media	Salt and salt mixtures are non-combustible
Unsuitable extinguishing media	Not Applicable
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Use appropriate firefighting PPE as a general precaution.
Fire-fighting equipment/instructions	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
Specific methods	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion Products	Chlorine, hydrogen chloride, oxides of sodium

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

7. Handling and Storage

Precautions for safe handling	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
Conditions for safe storage, including any incompatibilities	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposures limits noted for ingredients(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generallyrecognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m.Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL. TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields
Skin protection	
Hand protection	If there is constant skin contact, rubber gloves are recommended.
Other	Wear suitable protective clothing.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing 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

Appearance	White crystalline solid or compressed pellets
Physical State	Solid
Form	Crystalline Solid
Color	White
Odor	Halogen odor or odorless
Odor Threshold	Not applicable
pH in aqueous solution	4-9
Melting point/freezing point	1473.8 °F (801 °C)
Initial boiling point and boiling range	2669 °F (1465 °C) (760 mm Hg)
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not applicable
Flammability limit – upper (%)	Not applicable
Explosive limit – lower (%)	Not applicable
Explosive limit – upper (%)	Not applicable
Vapor pressure	2.4 mm Hg (1376.6 °F (747 °C))
Vapor density	Not applicable
Relative density	2.16 (H_2O = 1)
Solubility(ies)	
Solubility (water)	26.4%
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Other information	
Bulk density	53 – 83 lb/ft^3
Molecular formula	NaCl
Molecular weight	58.44

10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials, i.e. strong oxidizing agents, acids.
Incompatible materials	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
Hazardous decomposition products	Chlorine gas, hydrogen chloride, oxides of sodium.

11. Toxicological Information

Information on likely routes of exposure

Ingestion	Expected to be low ingestion hazard
Inhalation	High concentrations of dust may irritate throat and respiratory system and cause coughing.
Skin contact	Dust may irritate skin. May cause irritation through mechanical abrasion.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

Information on toxicological effects

Acute toxicity Ingestion of dusts generated during working operations may cause nausea and vomiting. In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

Product	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
Acute		
Oral		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
Other		
LD50	Mouse	2602 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation
Serious eye damage/eye irritation	Dust in the eyes will cause irritation
Respiratory or skin sensitization	
Respiratory sensitization	Not available
Skin sensitization	This product is not expected to cause skin sensitization
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified
Specific target organ toxicity - repeated exposure	Not classified
Aspiration Hazard	Not classified
Chronic effects	Not classified

12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Sodium Chloride (CAS 7647-14-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	4747 – 7824 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	No data available
Mobility in soil	No data available

Mobility in general	No data available
Other Adverse effects	None known

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG – Canada)

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Applicable

15. Regulatory Information

US Federal Regulations

All components are on the U.S. EPA TSCA Inventory List
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List
Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
SARA 302 Extremely Hazardous Substance	No
SARA 311/312 Hazardous Chemical	No
SARA 313 (TRI reporting)	Not regulated

Other federal regulations

Safe Drinking Water Act (SDWA)	Not regulated

US state regulations

US Massachusetts RTK – Substance List
Not regulated

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

US Pennsylvania Worker and Community Right-to-Know Law
Not listed

US Rhode Island RTK
Not regulated

US California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

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

*A "Yes" indicates this product complies 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 are exempt from listing on the inventory administered by the governing country(s)

16. Other Information, including date of preparation or last revision

Issue Date 10-April-2015

Revision Date -

Version # 01

Legend

Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HMIS Ratings	Health	1
	Flammability	0
	Physical Hazard	0
	Personal protection	A
NFPA Ratings	Health	1
	Flammability	0
	Reactivity	0

Disclaimer

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