SAFETY DATA SHEET

1. Product and Company Identification

Product Identifier Iodized Salt

Other means of identification
Synonyms Superior Iodized Table Salt
Private Label Brand Iodized Table Salt
Superior TX-10 Iodized Salt

Recommended Use Food applications

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

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

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.

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).

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m^3	Respirable Fraction

US. NIOSH Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium Silicoaluminate	TWA	2 mg/m^3

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. Wear a full-face respirator, if needed.
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
Physical State	Solid
Form	Crystalline Solid
Color	White
Odor	Halogen odor
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, $14SiO_2 \cdot Al_2O_3 \cdot Na2) \cdot 3H_2O$, $NaHCO_3$, KI, $Na_4Fe(CN)_6 \cdot 10H_2O$
Molecular weight	58.44, 1059.3, 84.0, 166.02, 484.06

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.
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 In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

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
Sodium Silicoaluminate (CAS 1344-00-9)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 hours
Inhalation	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
Acute		
Oral		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
Acute		
Oral		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
Other		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
Acute		
Oral		
LD50	Rat	> 4000 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
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	Due to the physical form of the product, it is not considered an aspiration hazard.

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
Sodium Aluminosilicate (CAS 1344-00-9)			
Aquatic			
Fish	LC50	Guppy (Poecilia reticulate)	1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)			
Aquatic			
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)			
Aquatic			
Crustacea	EC50	Daphnia	2350 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	8600 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	No data available
Partition coefficient n-octanol/water (log Kow Dextrose (CAS 50-99-7)	-3.24
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
Sodium Silicoaluminate (CAS 1344-00-9)

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	01-March-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

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