

SAFETY DATA SHEET

1. Identification

Product identifier	Sodium Chloride Food-Industrial (Untreated)
Other means of identification	
SDS number	S1
Synonyms	Sea Salt Topping * Pretzel M Salt. * Pretzel I Salt. * Alberger® Coarse Topping Salt. * Alberger® Flake Salt. * Alberger® Special Flake Salt. * Alberger® Fine Flake Salt. * U.S.P. Grade Sodium Chloride. * CMF® Granulated Salt, Food Grade Salt Bricks. * Food Grade Salt Bricks. * Hi-Grade® Plus Granulated Salt. * Hi-Grade® Granulated Salt. * Fine Blending Granulated Salt - Untreated. * Natural Fine Blending Sea Salt. * Sea Salt Extra Coarse Topping. * Sea Salt Coarse Topping. * Sea Salt Grinder. * Purified Sea Salt – Untreated. * Brinemaker's SelectTM Medium and Extra Coarse.
Recommended use	Salt may be intended for food or animal feed (agricultural) as well as several industrial applications including deicing and water conditioning.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company name	Cargill Incorporated
Address	Minneapolis, MN 55440
Telephone	1-888-385-7258
Website	www.cargillsalt.com
Emergency telephone number	CHEMTREC (800) 424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture 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

Mixtures

Chemical name		CAS number	%
Sodium Chloride		7647-14-5	100
GRAS Substance (Generally Reco	gnized As Safe).		
4. First-aid measures			
Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.		y to fresh air. Call a
Skin contact	Wash off with soap and water. Get medical atten	tion if irritation develops a	nd persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
ngestion	Give one or two glasses of water if patient is alert and able to swallow. Get medical attention symptoms occur.		t medical attention if
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.		
General information	Ensure that medical personnel are aware of the protect themselves.	material(s) involved, and t	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this w	vill spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Specific methods	Use standard firefighting procedures and conside	er the hazards of other inv	olved materials.
General fire hazards	This product is not flammable or combustible.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceed 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.		ne at levels exceedin Inless wearing
Methods and materials for containment and cleaning up	If sweeping of a contaminated area is necessary react with the product. Collect dust using a vacuu dust generation and accumulation. Avoid release flush area with water. For waste disposal, see se	use a dust suppressant a um cleaner equipped with to the environment. Follo	gent which does not HEPA filter. Minimiz
Environmental precautions	Avoid discharge into drains, water courses or on	to the ground.	
7. Handling and storage			
Precautions for safe handling	Provide appropriate exhaust ventilation at places and accumulation. Avoid breathing dust. Avoid co moisture. Keep away from strong acids. Practice	ontact with eyes. Avoid co	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in incompatible materials (see Section 10 of the SD humidity. Avoid humid or wet conditions as produ	S). Becomes hygroscopic	at 70-75% relative
8. Exposure controls/pers	onal protection		
Dccupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingred	lient(s).	
Appropriate engineering controls	Ventilation should be sufficient to effectively reme that may be generated during handling or therma	ove and prevent buildup o	f any dusts or fumes
Individual protection measures,	such as personal protective equipment		
Eye/face protection	Unvented, tight fitting goggles should be worn in	durate construction	

Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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.
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

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Appearance	White crystalline solid
Physical state	Solid.
Form	Crystalline solid.
Color	White to opaque
Odor	Halogen odor when heated
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	1473.8 °F (801 °C)
Initial boiling point and boiling range	2669 °F (1465 °C) (760 mmHg)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2.4 mm Hg (1376.6 °F (747 °C))
Vapor density	Not available.
Relative density	2.16 (H2O = 1)
Solubility(ies)	
Solubility (water)	26.4 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	35 - 83 lb/ft ³
Molecular formula	NaCl
Molecular weight	58.44
pH in aqueous solution	4 - 9
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous
reactionsNo dangerous reaction known under conditions of normal use.

Conditions to avoid	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).	
Incompatible materials	Avoid contact with strong acids. Becomes corrosive to metals when wet.	
Hazardous decomposition products	May evolve chlorine gas when in contact with strong acids.	
11. Toxicological information	tion	
Information on likely routes of e	exposure	
Inhalation	Inhalation of dusts may cause respiratory irritation.	
Skin contact	Prolonged or repeated skin contact may cause irritation.	
Eye contact	Dust in the eyes will cause irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort. For ingestion, consuming less than a few grams would not be harmful. The following effects were observed after ingesting an excessive quantity: nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral edema (fluid on brain), pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage.	
Information on toxicological eff	ects	
Acute toxicity	In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.	
Components	Species Test Results	
Sodium Chloride (CAS 7647-14-5		
Acute		
Oral		
LD50	Rat 3000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Skin corrosion/irritation Serious eye damage/eye irritation	Prolonged skin contact may cause temporary irritation. Dust in the eyes will cause irritation.	
Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitizatio	Prolonged skin contact may cause temporary irritation. Dust in the eyes will cause irritation.	
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13. Disposal considerations

Disposal instructions

Other adverse effects

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

None known.

Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste
disposal company.Waste from residues / unused
productsDispose 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 packagingEmpty 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

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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.

US federal regulations

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 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 Not regulated.

(SDWA)

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.

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 (ELINCS)	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 exempt from listing on the inventory administered by the governing country(s).

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

Issue date	21-August-2014
Revision date	17-April-2015
Version #	02
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: A
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	It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.
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use.