SAFETY DATA SHEET



1. Identification

Product identifier Iodized Table Salt

Other means of identification

SDS number 12

Synonyms Iodized Table Salt. * Diamond Crystal® Salt Sense® Iodized Table Salt. * Diamond Crystal®

lodized Table Salt. * Diamond Crystal® lodized Salt [Box]. * Diamond Crystal® Restaurant lodized Salt. * Leslie® lodized Table Salt, Colonial® lodized Table Salt. * Sterling® lodized Table Salt. *

Red Cross® Iodized Table Salt. * Private Brand Iodized Table Salt.

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 nameCargill IncorporatedAddressMinneapolis, 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	99.0-99.9015	
Calcium Phosphate, Tribasic	1306-06-5	<1.0	
Silicon dioxide	7631-86-9	<1.0	
Sodium bicarbonate	144-55-8	0.05-0.75	
Sodium Silicoaluminate	1344-00-9	0.0-0.75	
Dextrose	50-99-7	0.04-0.075	

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Potassium lodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide Decahydrate	13601-19-9	0.0-0.0013

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.

Skin contact Wash off 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.

Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if Ingestion

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.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

This product is not flammable or combustible.

6. Accidental release measures

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 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 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 drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid contact with water and moisture. Keep away from strong acids. May evolve chlorine gas when in contact with strong acids. Hydrogen chloride release above 1400°F. Practice good housekeeping.

Conditions for safe storage. including any incompatibilities Store in original tightly closed container. Store in a well-ventilated 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.

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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	
Silicon dioxide (CAS 7631-86-9)	TWA	0.8 mg/m3	
,		20 mppcf	

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable fraction and vapor.
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	2 mg/m3	

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes

controls ventilation should be sufficient to effectively remove and prevent buildup of any dusts of fulfill controls.

Individual protection measures, such as personal protective equipment

Eye/face protection Unvented, tight fitting goggles should be worn in dusty areas.

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 Always observe good personal hygiene measures, such as washing after handling the material

considerations 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 available.

pH 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 explosive limits

Flammability limit - lower Not available.

(%)

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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

Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Bulk density 53 - 83 lb/ft³

Molecular formula NaCl, 3Ca3(PO4)2·Ca(OH)2, SiO2, Na2O·Al2O3·13.2SiO2, NaHCO3, KI, Na4Fe(CN)6·10H2O

Molecular weight 58.44, 1004.7, 60.09, 957.05, 84.00, 166.02, 484.06

pH in aqueous solution 6.7 - 7.3

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Incompatible materials

Hazardous decomposition

products

May evolve chlorine gas when in contact with strong acids.

Avoid contact with strong acids. Becomes corrosive to metals when wet.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation.

Skin contact Prolonged or repeated skin contact may cause irritation. If applied to damaged skin, absorption

can occur with effects similar to those via ingestion.

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 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.

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Components **Species Test Results** Dextrose (CAS 50-99-7) Acute Other LD Rabbit 35 g/kg Potassium Iodide (CAS 7681-11-0) 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 Sodium bicarbonate (CAS 144-55-8) Acute Oral LD50 Rat > 4000 mg/kg Sodium Chloride (CAS 7647-14-5) Acute Oral LD50 Mouse 4000 mg/kg Rat 3000 mg/kg Other LD50 2602 mg/kg Mouse Sodium Silicoaluminate (CAS 1344-00-9) Acute Dermal LD50 Rabbit > 5000 mg/kg, 24 Hours Inhalation LC50 Rat > 2.08 mg/l, 4 Hours Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Serious eye damage/eye Dust in the eyes will cause irritation. irritation Respiratory or skin sensitization Not available. Respiratory sensitization 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. IARC Monographs. Overall Evaluation of Carcinogenicity Silicon dioxide (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis 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 an aspiration hazard.

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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
Potassium Iodide (CAS 7681	I-11-0)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	896 mg/l, 96 hours
Sodium bicarbonate (CAS 14	44-55-8)		
Aquatic			
Crustacea	EC50	Daphnia	2350 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	8600 mg/l, 96 hours
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 Silicoaluminate (CAS	S 1344-00-9)		
Aquatic			
Fish	LC50	Guppy (Poecilia reticulata)	1800 - 3200 mg/l, 96 hours
sistence and degradability	No data is av	ailable on the degradability of this product.	

Persistence and degradability

No data is available.

No data available.

Partition coefficient n-octanol / water (log Kow)

Dextrose (CAS 50-99-7) -3.24

Mobility in soilNo data available.Other adverse effectsNone known.

13. Disposal considerations

Disposal instructionsCollect 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to No 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.

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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.

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

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

Silicon dioxide (CAS 7631-86-9)

US. New Jersey Worker and Community Right-to-Know Act

Silicon dioxide (CAS 7631-86-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Silicon dioxide (CAS 7631-86-9)

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 (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

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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 15-September-2014

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HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: A

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work environment.

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