SAFETY DATA SHEET



1. Identification

Product identifier Plain Table Salt

Other means of identification

SDS number P1

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

* Diamond Crystal® Plain Salt (Box). * Diamond Crystal® Restaurant Plain Salt. * Diamond Crystal® Salt for Canning. * Pickling and Table Use (Box). * Sodium Chloride (Salt). * NaCl, 3Ca3(PO4)2•Ca(OH)2, SiO2, Na2O•Al2O3•13.2SiO2, Na4Fe(CN)6•10H2O. * Sodium Chloride, Calcium Phosphate Tribasic, Silicon Dioxide, Sodium Silicoaluminate, Sodium Ferrocyanide

Decahydrate.

Recommended useSalt is intended for food grade applications.

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.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical description Alkali Metal/Halide

Chemical name	CAS number	%
Sodium Chloride	7647-14-5	99.0-99.9987
Calcium Phosphate, Tribasic	7758-87-4	<1.0
Silicon dioxide, crystalline silica-free	7631-86-9	<1.0
Sodium alumino silicate	1344-00-9	0.0-0.75

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Sodium Ferrocyanide 13601-19-9 0.0-0.0013 Decahydrate

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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

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

General information

Treat symptomatically.

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

Special protective equipment

During fire, gases hazardous to health may be formed such as: Carbon oxides (COx). Hydrogen

chloride gas. Metal oxides.

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

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.

8. Exposure controls/personal protection

Occupational exposure limits

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

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

Plain Table Salt SDS US **US. ACGIH Threshold Limit Values Form** Components Value Type Sodium alumino silicate TWA 1 mg/m3 Respirable fraction. (CAS 1344-00-9) **US. NIOSH: Pocket Guide to Chemical Hazards** Components Value Type Silicon dioxide, crystalline **TWA** 6 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

(CAS 1344-00-9)

controls

silica-free (CAS 7631-86-9) Sodium alumino silicate

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

that may be generated during handling or thermal processing.

Individual protection measures, such as personal protective equipment

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

TWA

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

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. Use a NIOSH/MSHA approved respirator

2 mg/m3

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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 available.

pH Not available.

Melting point/freezing point 1473.8 °F (801 °C)

Initial boiling point and boiling

2669 °F (1465 °C) (760 mmHg)

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive 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)

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Solubility(ies)

26.4 % Solubility (water) Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. Viscosity

Other information

53 - 83 lb/ft³ **Bulk density**

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

58.44, 1004.7, 60.09, 957.05, 484.06 Molecular weight

pH in aqueous solution 6 - 10

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

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 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

Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation.

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

can occur with effects similar to those via ingestion.

Dust in the eyes will cause irritation. Eye contact Expected to be a low ingestion hazard. Ingestion

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

In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Acute toxicity

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.

Components **Species Test Results**

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Acute Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours

Inhalation

Dust

LC50 Rat > 0.14 mg/l, 4 Hours

Oral

LD50 Rat > 3300 mg/kg

SDS US Plain Table Salt

922330 Version #: 02 Revision date: 21-May-2018 Issue date: 21-August-2014 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.

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 mutagenicityNo 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, crystalline silica-free (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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.

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.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects None known.

13. Disposal considerations

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

Local disposal regulationsDispose 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.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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, crystalline silica-free (CAS 7631-86-9)

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

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

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

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Sodium alumino silicate (CAS 1344-00-9)

US. Rhode Island RTK

Not regulated.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

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Country(s) or region Inventory name On inventory (yes/no)*

KoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

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 date21-August-2014Revision date21-May-2018

Version # 02

Philippines

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: A

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work environment.

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use.

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Yes