

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 08.21.2014

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Revision date: 03.22.2024

Sodium Chloride Food-Industrial (YPS Treated)

SECTION 1: Identification

Product Identifier

Product Name: Sodium Chloride Food-Industrial (YPS Treated)

Synonyms: Diamond Crystal® Granulated Salt. * Flo-Ever® Granulated Salt - CMF®. * Gulf Shore Boat & Boil® Salt. * Flo-Ever® Fine Granulated Salt - CMF®. * Top-Flo® Plus Granulated Salt. * Top-Flo® Granulated Salt. * Hi-Tex® Granulated Salt. * Fine Blending Granulated Salt - YPS Treated. * Premier™ Extra Coarse Flake Salt. * Sodium Chloride (Salt). * Premier™ Select Coarse Flake Salt. * Premier™ Topping Flake Salt. * Premier™ Fine Flake Salt. * Purified Sea Salt with YPS. * Private Label Granulated Salt. * Sodium Chloride (Salt) - Treated with Yellow Prussiate of Soda (YPS). * Seafarer's® Fine Salt. * Hi-Grade® Plus Granulated Salt. * Champions Choice.



Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Salt may be intended for food or animal feed (agricultural) as well as several industrial applications including deicing and water conditioning.

Uses Advised Against: Not determined or not applicable.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Supplier:

United States

Cargill Incorporated
15407 McGinty Rd W
Wayzata, MN 55391
1-800-227-4455

Emergency Telephone Number:

United States

VelocityEHS (formerly ChemTel, Inc)
1-800-255-3924 (North America)
+1-813-248-0585 (International)

SECTION 2: Hazard(s) Identification

GHS Classification: Not a hazardous substance or mixture

Label elements

Hazard Pictograms: None

Signal Word: None

Hazard statements: None

Precautionary Statements:

P264 Wash hands thoroughly after handling

P401 Store away from incompatible materials

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations

Hazards Not Otherwise Classified: None

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SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7647-14-5	Sodium chloride	>99
CAS Number: 13601-19-9	Tetrasodium hexacyanoferrate	0.0005-0.0 013

Additional Information:

GRAS Substance (Generally Recognized As Safe).

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

After Inhalation:

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

After Skin Contact:

Wash off with soap and water. Get medical attention if irritation develops and persists.

After Eye Contact:

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

After Swallowing:

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

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Direct contact with eyes may cause temporary irritation.

Delayed Symptoms and Effects:

Not determined or not applicable.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Treat symptomatically.

Notes for the Doctor:

Not determined or not applicable.

SECTION 5: Firefighting Measures

Extinguishing Media

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 will spread the fire.

Specific Hazards During Fire-Fighting:

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

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Sodium oxides.

Special Protective Equipment for Firefighters:

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

Special precautions:

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

Use water spray to cool unopened containers.

This product is not flammable or combustible.

SECTION 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.

Environmental Precautions:

Avoid discharge into drains, water courses or onto the ground.

Methods and Material 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.

Never return spills to original containers for re-use.

Reference to Other Sections:

For waste disposal, see section 13 of the SDS.

For personal protection, see section 8 of the SDS.

SECTION 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. 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.

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

Biological Limit Values:

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

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

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

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generated during handling or thermal processing.

Personal Protection Equipment

Eye and Face Protection:

Unvented, tight fitting goggles should be worn in dusty areas.

Skin and Body Protection:

Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other: Wear suitable protective clothing.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

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

Protection from nuisance dust, use type N95 (US) or type P1 (EN 143) dust masks.

General Hygienic Measures:

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.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Solid granules: White.
Odor	Halogen odor
Odor threshold	Not determined or not available.
pH	5-8 (at 50 g/l H ₂ O / 20 °C)
Melting point/freezing point	1473.8 °F (801 °C)
Initial boiling point/range	2669 °F (1465 °C) (760 mmHg)
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	2.4 mm Hg (1376.6 °F (747 °C))
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	2.16 (H ₂ O = 1)
Solubilities	26.4 % soluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.

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Oxidizing properties

Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

The 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:

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

Hazardous Decomposition Products:

May evolve chlorine gas when in contact with strong acids.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Sodium chloride	oral	LD50 Rat: >3980 mg/kg
	inhalation	LC50 Rat: >10.5 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: >10,000 mg/kg
Tetrasodium hexacyanoferrate	oral	LD50 Rat: > 5110 mg/kg
	dermal	LD50 Rat: >2000 mg/kg

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Prolonged skin contact may cause temporary irritation.

Substance Data: No data available.

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Dust in the eyes will cause irritation.

Substance Data: No data available.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Skin sensitization: This product is not expected to cause skin sensitization.

Respiratory sensitization: Not available.

Substance Data: No data available.

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Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Species	Result
	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Tetrasodium hexacyanoferrate	Not Applicable
Sodium chloride	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Tetrasodium hexacyanoferrate	Not Applicable
Sodium chloride	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

This product is not expected to cause reproductive or developmental effects.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Not classified.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Not classified.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Due to the physical form of the product it is not an aspiration hazard.

Substance Data: No data available.

Information on Likely Routes of Exposure:

Inhalation: Inhalation of dusts may cause respiratory irritation.

Eye contact: Dust in the eyes will cause irritation.

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Ingestion: Expected to be a low ingestion hazard.

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.

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.

Other Information:

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.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment:

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.

Product Data: No data available.

Substance Data:

Name	Result
Sodium chloride	Fish LC50 <i>Lepomis macrochirus</i> : 5840 mg/L (96 hr)
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 874 mg/L (48 hr [immobilisation])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Sodium chloride	Fish NOEC <i>Pimephales promelas</i> : 252 mg/L (33 d [mortality])
	Aquatic Invertebrates NOEC <i>Daphnia pulex</i> : 314 mg/L (21 d [reproduction])

Persistence and Degradability

Product Data:

This product is not biodegradable.

Substance Data:

Name	Result
Tetrasodium hexacyanoferrate	A ready biodegradation study does not need to be conducted since the substance is inorganic.
Sodium chloride	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

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Name	Result
Tetrasodium hexacyanoferrate	This substance has a low potential for bioaccumulation.
Sodium chloride	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Tetrasodium hexacyanoferrate	This substance has low potential to be adsorbed by the soil/sediment.
Sodium chloride	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Sodium chloride	PBT assessment does not apply to inorganic compounds such as this substance.
Tetrasodium hexacyanoferrate	PBT assessment does not apply.

vPvB assessment:

Tetrasodium hexacyanoferrate	vPvB assessment does not apply.
Sodium chloride	vPvB assessment does not apply to inorganic compounds such as this substance.

Other Adverse Effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal Considerations

Disposal Methods:

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 packages:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
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UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know: None of the ingredients are listed.

New York Right to Know: None of the ingredients are listed.

Pennsylvania Right to Know: None of the ingredients are listed.

California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

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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. This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.

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End of Safety Data Sheet