

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Blue Crystal De-icer™** CAS Number: Mixture
Synonyms: Sodium Chloride with Proprietary Additives
Company Identification: **Liotta & Sons, Inc.**
3966 Long Beach Road, Island Park, NY 11558
For Product Info: 516-432-7085 • Fax: 516-432-6710

2. COMPOSITION / INFORMATION ON INGREDIENTS**CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS**

Chemical Name	Amount	CAS Number	OSHA PEL	ACGIH TWA
Sodium Chloride	>97%	7647-14-5	Not Listed	Not Listed
Chloride Solution with Proprietary Additive	<3%	Proprietary	Not Listed	Not Listed
Colorant (Blue)	<1%	Proprietary	Not Listed	Not Listed

HAZARDS DISCLOSURE: This product does require employee notification as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION. MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT IF SWALLOWED.

HMIS/NFPA Rating: See Section 16

POTENTIAL HEALTH EFFECTS: This product is an irritant case of skin contact, of eye contact, of ingestion, and of inhalation.

ROUTES OF ENTRY: Skin, Eyes, Inhalation, Ingestion.

TARGET ORGANS: None known

INHALATION: Inhalation of dust may cause irritation.

INGESTION: Ingestion of this product may cause irritation of the gastrointestinal tract.

SKIN CONTACT: Prolonged or repeated exposure to this product may cause irritation.

EYE CONTACT: Contact with eyes will cause irritation with pain, redness and tearing.

CHRONIC EXPOSURE: None Known

AGGRAVATION OF PRE-EXISTING CONDITIONS: Persons with pre-existing skin disorders may be more susceptible to the effects of the substance.

4. FIRST AID MEASURES

INHALATION FIRST AID: If breathing is difficult remove victim to fresh air and provide oxygen if necessary. If not breathing, give artificial respiration, preferably mouth to mouth.

GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT FIRST AID: Wash exposed skin with plenty of soap and water.

GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYE CONTACT FIRST AID: If contact with eyes, remove contact lenses if worn and immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally.

GET MEDICAL ATTENTION IF IRRITATION OR BLUR RED VISION OCCURS.

INGESTION FIRST AID: Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. **GET MEDICAL ATTENTION IMMEDIATELY.**

NOTE TO PHYSICIANS: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not Flammable

AUTO IGNITION TEMPERATURE: Not Applicable

FLASH POINT: Not Applicable

FLAMMABLE LIMITS IN AIR, % by Volume: lel: NA%; uel: NA%

EXTINGUISHING MEDIA: Water spray, dry chemical, alcohol foam, or carbon dioxide.

FIRE & EXPLOSION HAZARDS: None Known

SPECIAL INFORMATION: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is **(800) 424-8802**.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE CONDITIONS: Keep away from incompatibles such as oxidizing agents, acids.

HANDLING (PERSONNEL): Handle in accordance with good industrial hygiene and safety practices.

Avoid contact with eyes, skin and clothing. If ingested, seek medical advice immediately and show the container or the label. Use with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:

Sodium Chloride:

-OSHA Permissible Exposure Limit (PEL): Not Listed

-ACGIH Threshold Limit Value (TWA): Not Listed

Use general nuisance dust limits: 10 mg/m³

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the *ACGIH document, Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): Not normally required with this product. If the exposure limit is exceeded, and engineering controls are not feasible, see 29CFR1910.134 for details.

SKIN PROTECTION: Not normally required with this product. Use good hygiene practices.

EYE PROTECTION: Use appropriate eye/face protection to prevent contact.

GOOD HYGIENE CONDITIONS: Wash with soap and water before meals and at the end of each work shift. Good manufacturing practices require amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: Slight

Vapor Pressure: Not Applicable

Evaporation Rate: Not Applicable

Boiling Point: 1413°C (2575°F)

Decomposition Temperature: Not available.

Specific Gravity/Density: 2.165

Appearance: Slightly Blue Crystalline Coarse Powder

pH: 7 (Neutral)

Vapor Density: Not Available

Viscosity: Not Applicable

Melting Point: 801°C (1473°F)

Solubility: Soluble

Molecular Formula: NaCl

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Incompatible materials, high temperatures.

INCOMPATIBILITIES WITH OTHER MATERIALS: Reactive with oxidizing agents, metals, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition it emits toxic fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGY INFORMATION**TOXICOLOGICAL DATA:****Sodium Chloride:**

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 3000 mg/kg [Rat.]. Acute dermal toxicity (LD50): >10000 mg/kg

[Rabbit]. Acute toxicity of the dust (LC50): >42000 mg/m³ 1 hours [Rat].

Other Ingredients:

No LD50 Data Available

CARCINOGENIC EFFECTS: No components of this product are listed as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

EPIDEMIOLOGY: No information found.

TERATOGENICITY: No information found.

REPRODUCTIVE EFFECTS: Adverse reproductive effects have occurred in experimental animals.

MUTAGENICITY: No information found.

NEUROTOXICITY: No information found Cancer Lists.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: Possibly hazardous short term degradation products are not likely.

However, long term degradation products may arise.

ENVIRONMENTAL TOXICITY: The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Recover, reclaim or recycle when practical. Dispose of material in accordance with federal, state and local requirements.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

14. DISPOSAL CONSIDERATIONS

Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)

Proper Shipping Name: Not a DOT Controlled Material (Non-Regulated)

Hazard Class: NA

UN/NA: NA

Packing Group: NA

ERG GUIDE NUMBER: NA

SUPPLEMENTAL HAZARD: None

15. REGULATORY INFORMATION**FEDERAL REGULATORY STATUS****U.S. SARA REPORTING REQUIREMENTS:**

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act. *(continued)*

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

SARA 311/312: **Acute:** Yes **Chronic:** No **Fire:** No **Pressure:** No **Reactivity:** No (Pure / Liquid)

PROP 65 - WARNING: THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

CANADA: CAS# 7647-14-5 is listed on Canada's DSL List.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHIMS Classification: This product is not controlled by WHIMS.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: Korea (TCCL), Australia (AICS), China (Draft), PICCS (Philippines-RA6969), Japan (ENCSMETI/MOL).

16. OTHER INFORMATION

LABEL REQUIREMENTS:

**CAUTION! CONTACT WITH SKIN AND EYES MAY CAUSE IRRITATION.
MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT IF SWALLOWED.**

Hazardous Material Information System (HMIS):	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	A

National Fire Protection Association (NFPA): 1-Health, 0-Flammability, 0-Reactivity

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Liotta & Sons, Inc. The data on this sheet are related only to the specific material designated herein. Liotta & Sons, Inc. assumes no legal responsibility for use or reliance upon these data.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.