

Section 1 – Product and Company Identification



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Material Safety Data Sheet

Product Name: NO ICE™

Composition Information:

Chemical Name Common Names	Sodium Chloride (88% - 95%) Salt, Halite
Chemical Name Common Names	Calcium Chloride (8% - 12%)
Chemical Name Common Names	Calcium Magnesium Acetate (0.1% - 2%) CMA
Chemical Name Common Names	Orcosalt Green B Dye (<1%)

Section 2 – Hazard Information

Physical State: Solid, crystals with pellets and/or flakes, size minus ½"

Color / Odor: Green / odorless

There is NO chemical present in this product at a concentration of 0.1% or greater classified as a carcinogen. Hazard and toxicity information for this product has not been established or tested.

Inhalation	Exposure to airborne dust may cause irritation of nose, throat and lungs. Avoid excessive exposure. Inhalation of this substance may aggravate existing respiratory illnesses. Toxicological properties of this product have not been investigated.
Eye Contact	Physical exposure may burn eyes or cause irritation. Avoid excessive exposure. Toxicological properties of this product have not been investigated.
Ingestion	May irritate gastrointestinal lining. Ingestion of a large amount of this substance (more than 0.1 pounds) may cause vomiting. Toxicological properties of this product have not been investigated.
Skin Contact	May cause burn skin or cause irritation. May cause necrosis in abraded/irritated or cut skin. Toxicological properties of this product have not been investigated.

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Section 3 – Composition / Information on Components

No OSHA or ACGIH exposure limits exist for the components of this product. However, the OSHA and the ACGIH Limits for total dust and respirable dust should be followed.

OSHA – TWA: 15 mg/m³ TWA Inhalation Total Dust
OSHA – TWA: 5 mg/m³ TWA Inhalation Respirable Dust
ACGIH Limit– TWA: 10 mg/m³ TWA Inhalation Total Dust
ACGIH Limit– TWA: 5 mg/m³ TWA Inhalation Respirable Dust

Material (% Composition)	CAS#	EINECS#	OSHA / OES PEL / MEL	ACGIH Limit
Sodium Chloride (88% - 95%)	7647-14-5	231-598-3	None	None
Calcium Chloride (8% - 12%)	10043-52-4	233-140-8	None	None
Water	7732-18-5	231-791-2	None	None
Calcium Magnesium Acetate (0.1% - 2%)	76123-46-1	None	None	None
Orcosalt Green B Dye (<1%)	19381-50-1	243-010-2	None	None

Section 4 - First Aid Measures

Inhalation	Remove to fresh air. Get medical attention if any breathing difficulty develops. If breathing has stopped, perform artificial respiration and seek prompt medical attention.
Eye Contact	Flush eyes with large amounts of clean water for at least 15 minutes, lifting upper and lower eyelids occasionally. Check for and remove contact lenses if possible. If irritation persists or for imbedded material, seek medical attention. Do not allow victim to rub eyes or keep eyes closed.
Ingestion	Ingestion of a large amount (more than 0.1 pounds) may cause vomiting. Do not induce vomiting unless directed by a medical professional. Give 1 – 2 large glasses of water or milk and call Poison Control (1-800-222-1222) or seek medical attention and present the MSDS. Never give anything by mouth to an unconscious person.
Skin Contact	Absorption is not expected through skin. Avoid contact with abraded or cut skin. In case of contact, flush skin with soap and water. Obtain medical attention if irritation develops. Wash contaminated clothes before reuse.

Section 5 – Firefighting Measures

This material is considered non-combustible and will likely dissolve when flushed with water. Firefighters should wear appropriate protective equipment for surrounding materials.

Avoid generation of dust.

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Section 6 – Accidental Release Measures

Material does not pose any significant spill or leak hazards. Clean up materials immediately. Sweep up and flush area with water. Wear appropriate personal protective equipment (see Section 8). Maintain good standards of industrial hygiene (See Section 8).

Significant quantities left on vegetation for long periods of time will suffocate and/or burn vegetation. Large quantities of this material in fresh water bodies may harm aquatic plants and animals by disrupting osmoregulation (cellular water regulation) ability.

Dispose of waste product according to applicable local, state and federal regulations.

Section 7 - Handling and Storage

Store in closed containers or bags in a clean, cool, dry area with <75% relative humidity to avoid caking. This material will maintain maximum quality when stored in air-tight or water-proof containers. Since this product may absorb moisture and dissolves in water, smooth surfaces can become slippery when product is in prolonged contact with the floor.

Although this material is generally not hazardous, do not store near food or feed. Keep out of reach of children and pets.

When handling this material, good industrial hygiene practices should be followed in order to avoid inhalation and contact with skin, eyes and clothing. Avoid excessive or repeated exposure.

Workers should be trained to handle material without generating dust or spillage.

Facilities storing or utilizing this material should be equipped with an eyewash station.

Section 8 - Exposure Control and Personal Protective Equipment

Ingredient Name	Occupational Exposure Limits
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No OSHA or ACGIH exposure limits exist for the components of this product. However, the OSHA and the ACGIH Limits for total dust and respirable dust should be followed.

OSHA – TWA: *15 mg/m³ TWA Inhalation Total Dust*
OSHA – TWA: *5 mg/m³ TWA Inhalation Respirable Dust*
ACGIH Limit– TWA: *10 mg/m³ TWA Inhalation Total Dust*
ACGIH Limit– TWA: *5 mg/m³ TWA Inhalation Respirable Dust*

Sodium Chloride (88% - 95%)	OSHA – TWA: <i>None</i> ACGIH Limit– TWA: <i>None</i>
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Calcium Chloride (8% - 12%)	OSHA – TWA: <i>None</i> ACGIH Limit– TWA: <i>None</i>
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Water	OSHA – TWA: <i>None</i> ACGIH Limit– TWA: <i>None</i>
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Calcium Magnesium Acetate (0.1% - 2%)	OSHA – TWA: <i>None</i> ACGIH Limit– TWA: <i>None</i>
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Orcosalt Green B Dye (<1%)	OSHA – TWA: <i>None</i> ACGIH Limit– TWA: <i>None</i>
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Respiratory Protection:

In cases of exposure to high levels of airborne dust, wear a NIOSH/MSHA approved personal respirator. A closed system or local exhaust ventilation is not necessary but may be used in confined spaces.

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Section 8 - Exposure Control and Personal Protective Equipment (cont'd)

Eye Protection:	Approved safety goggles are desirable but not required. Do not wear contact lenses when working with this product. Ensure access to eyewash station.
Skin Protection:	Suitable protective gloves are desirable while handling this material, especially for prolonged or repeated exposures, but not required. Use of protective clothing is good industrial practice. Ensure access to safety shower in case of skin irritation. Safety or non-slip shoes should be worn when working with this product.

Section 9 – Physical and Chemical Properties

Physical State	Solid, crystals with pellets and/or flakes, size minus ½"
Appearance / Odor	Green / odorless
Melting Point	≥ 1474° F
Boiling Point	≥ 2575° F
Flashpoint	Non-flammable
Specific Gravity (H₂O=1)	≈ 2.165 (H ₂ O = 1)
Vapor Pressure (at 20°C)	≈ 2.4 mm @ 1376° F
Vapor Density (Air=1)	Not Applicable
Solubility in Water	> 317 g/L @ 60° F
pH	Not Applicable (pK _a = 6.7 to > 7.3)

Section 10 – Stability and Reactivity

Stable under recommended storage and handling conditions (See Section 7). Hygroscopic (absorbs moisture); avoid moisture.

Hazardous polymerization will not occur.

This material may be incompatible or react with strong acids, zinc, water, methyl vinyl ether, bromine trifluoride, boron oxide, or calcium oxide.

Hazardous decomposition products may include: (in the presence of strong acids) hydrochloric acid. When heated to degradation, may emit toxic Cl⁻ and Na₂O fumes.

Avoid dust generation.

Section 11 – Toxicological Information

No component of this product at levels greater than 0.1% is identified as a carcinogen by established regulatory criteria.

Toxicological information and testing regarding this product has not been established at this time.

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Section 11 – Toxicological Information (cont'd)

Inhalation	<p>Prolonged inhalation of respirable dust may cause irritation of nose, throat and lungs. Inhalation of this substance may aggravate existing respiratory illnesses.</p> <p>Exposure to dust and/or vapors should be kept to below the occupational exposure standard limits, at which levels no effects on respiratory health would be expected.</p> <p>Sodium Chloride LC50 (rat) inhalation > 42 g/m³/1H Investigated as a mutagen, reproductive effector</p>
Eye Contact	<p>Physical exposure may burn eyes or cause irritation. Avoid excessive exposure.</p>
Ingestion	<p>May irritate gastrointestinal lining. Ingestion of a large amount of this substance (more than 0.1 pounds) may cause vomiting.</p> <p>Sodium Chloride TDLo (human) oral 12357 mg/kg LDLo (man) oral 1 g/kg LD50 (rat, mouse, rabbit) oral 3000 – 8000 mg/kg Investigated as a mutagen, reproductive effector</p> <p>Calcium Chloride LD50 (mouse) 1940 mg/kg LD50 (rat) 1 g/kg LDLo (rabbit) 1384 mg/kg</p>
Skin Contact	<p>May cause burn skin or cause irritation. May cause necrosis in abraded or cut skin.</p> <p>Sodium Chloride LD50 (rabbit) skin > 10 g/kg Investigated as a mutagen, reproductive effector</p>

Section 12 – Ecological Information

Environmental Statement	<p>Significant quantities left on vegetation for long periods of time may suffocate or burn vegetation. Large quantities of this material in fresh water bodies may harm aquatic plants and animals by disrupting osmoregulation (cellular water regulation) ability.</p> <p>Main components of this material are water-soluble and occur naturally, and are unlikely to have any long-term effect on the environment. However, large or frequent applications or spills can have a potentially damaging effect on the environment.</p> <p>As a general rule, every effort should be made to avoid salt leeching into water courses.</p>
Mobility	<p>This material is water-soluble and is expected to move rapidly with surface water or groundwater flows.</p>
Degradability	<p>This material is not organic and therefore does not undergo biodegradation.</p> <p>When heated to degradation, may emit toxic Cl⁻ and Na₂O fumes.</p>
Accumulation	<p>Based on available information, the sodium chloride present in this material may bioaccumulate in some aquatic organisms.</p>
Ecotoxicity	<p>No testing has been performed by the manufacturer on this product.</p> <p>Sodium Chloride Fish (<i>Carassius aratus</i>): LC50 96 Hr. = > 7341000 □g/L Daphnia: EC50 48 Hr. = > 1493000 □g/L</p>

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Section 13 – Disposal Considerations

Follow local and national regulations for solid waste handling. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Refer to Section 7 for Handling and Storage information.

Dispose in dry landfill or dissolve in sufficient amounts of water to meet existing water quality standards. No special treatment required when disposing in landfill.

Section 14 – Transport Information

No hazard determination has been determined for this product. The components of this material are not classified as DOT hazardous for transportation.

Review the DOT standard prior to transporting this substance.

Section 15 – Regulatory Information

This material safety data sheet is intended to meet the specific requirements of OSHA's General Industry Standard at 29 CFR 1910.1200 and the International ANSI Standard Z400.1-2004.

This product contains no ingredient present at 0.1% or greater that is listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA.

Constituent:	Sodium Chloride	Calcium Chloride	Calcium Magnesium Acetate	Orcosalt Green B Dye
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US Federal Environmental Regulations

CAA				
CERCLA				
CWA	X	X	X	X
RCRA	X	X	X	X
SARA 302 / 303				
SARA 311 / 312	X Acute	X Acute	X Acute	
SARA 313				
TSCA	X	X	X	X
DOT				

Inventories

AICS	X	X		X
DSL	X	X	X	X
EC	X	X		X
EINECS	X	X		X
ENCS				
EU				
KECI	X	X		
METI	X	X		
PCCS	X	X		
WHMIS				

X = Listed / Regulated

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Section 16 – Miscellaneous Information

All statements, technical information and recommendations contained herein are, to the best of our knowledge, reliable and accurate, however, no warranty, either expressed or implied, is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

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

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