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# SAFETY DATA SHEET

Product And Company Identification

Product Identifier:

Ice Breaker Green

Manufacturer:

Zircon Industries, Inc.

4920 Commerce Parkway - Suite 9

Cleveland, Ohio 44128

(216) 595-0200

Recommended use:

Surface Deicer

Recommended restrictions:

None known

Emergency:

(800) 535-5053

2. Hazards Identification

Physical hazards

Not classified

Health hazards

Not classified

Environmental hazards

Not classified

OSHA-defined hazards

Not classified

Label elements

Hazard symbol

None

Signal word

None

Hazard statement

The substance 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

Not applicable

3. Composition/Information on Ingredients						
Ingredient	CAS#	LD50	LC50			
Magnesium Chloride	7791-18-6	None	None			
Hexahydrate						
Carbohydrate Complex	N/A					
Corrosion Inhibitor						
Water	7732-18-5					
Mixture						
Composition comments	The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers,					
	Mutagens, Terat	ogens and Rep	roductive toxins are listed when present at 0.1% or greater;			
	components whi	ch are otherwis	e hazardous according to WHMIS/OSHA are listed when present at			
	1.0% or greater.	Non-hazardou	s components are not listed. The products pertaining to this SDS			
	have various pro	portions of com	ponents which do not meet the listing criteria.			
		4.	First-Aid Measures			
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.					
	Call a physician	if symptoms de	velop or persist.			
Skin contact	Rinse skin with water/shower.					
	Get medical atte	ention if irritation	develops and persists.			
Eye contact	Rinse with water	г.				
	Get medical atte	ention if irritation	develops and persists.			
Ingestion	Rinse mouth.					
	If ingestion of a	large amount do	es occur, call a poison control center immediately.			
Most important						
symptoms/effects,						
acute and delayed	Direct contact w	ith eyes may ca	use temporary irritation.			
Indication of immediate						
medical attention and						
special treatment needed	Treat symptoma	tically				
General information	Ensure that med	dical personnel a	are aware of the material(s) involved and take precautions to			

protect themselves.

	5. Fire Fighting Measures
Suitable extinguishing media	Treat for surrounding material.
Unsultable extinguishing media	None known.
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 standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.
	6. Accidental Release Measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. 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	Avoid contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this material.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
	8. Exposure Controls/Personal Protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	TWA PEL: No specific limits have been established for magnesium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.
	TWA TLV: No specific limits have been established for magnesium chloride (a soluble substance) As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV
	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Safety glasses

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Skin protection

Rubber gloves. Confirm with a reputable supplier first. **Hand protection** 

Other As required by employer code.

Not applicable.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or Respiratory protection

NIOSH-approved filtering facepiece.

Thermal hazards

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

Liquid **Appearance** Physical state Liquid. Crystalline. Form Green Cotor Odor **Odorless** Odor threshold Not available. рН

7 - 9 (5% solution) -1 °F (-18.33 °C) (30% solution, periodically mixed to ensure homogeneity) Melting point/freezing point

Initial boiling point and boiling

range

Not applicable

225 °F (107.22 °C)

Not available. Pour point

1.24 - 1.34 (H2O = 1)Specific gravity

**Partition coefficient** 

(n-octano!/water)

Not available.

Not available. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) 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. Not available. Vapor pressure Vapor density Not available. Relative density Not available.

Easily soluble in cold water, hot water, methanol, acetone. Solubility(ies)

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

### 10. Stability and Reactivity

Reactive with oxidizing agents, acids, metals in presence of moisture.

Possibility of hazardous

reactions

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions. Conditions to avoid Contact with incompatible materials. Incompatible materials Acids. Strong oxidizing agents. Metals.

Hazardous decomposition

products

May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.

## 11. Toxicological Information

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Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

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No adverse effects due to inhalation are expected. Inhalation No adverse effects due to skin contact are expected.

Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

Skin contact

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not classified. **Acute toxicity** 

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Not available. **Exposure minutes** Erythema value Not available. Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Not available. Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening

value

Conjunctival oedema value Not available. Not available. Recover days

Respiratory or skin sensitization

Respiratory sensitization Not classified.

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

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

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

mutagenic or genotoxic.

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

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

Teratogenicity Not classified. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not available.

Aspiration hazard Not classified. Chronic effects Not classified.

**Further Information** Name of Toxicologically **Synergistic Products** 

This product has no known adverse effect on human health.

### 12. Ecological Information

**Ecotoxicity** May be harmful to freshwater aquatic species and to plants that are not saline tolerant.

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

**Bioaccumulative potential** No data available. Mobility in soil No data available. Not available. Mobility in general

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.

# 13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. **Disposal instructions** 

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

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

WHMIS status

Not Controlled

US federal regulations

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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** 

No

hazardous substance

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

**Food and Drug** 

Administration (FDA)

Total food additive Direct food additive

**GRAS** food additive

US state regulations

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.

**US. Massachusetts RTK - Substance List** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

**Inventory status** 

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada Canada Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Yes No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

"A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

LEGEND	)
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	1	1
FLAMMABILITY		0
PHYSICAL HAZA	RD	0
PERSONAL PROTECTION		х



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Further information

15 Jan 2021 For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

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