



SAFETY DATA SHEET

Blue Heat

1. Product and Company Identification

Product identifier	Blue Heat
Other means of identification	Calcium Chloride, Sodium Chloride and Magnesium Chloride.
Recommended use	Melting Snow and Ice
Company information	Dart Seasonal Products, Inc. 100 Cedarhurst Ave Cedarhurst, NY 11516 844-ICE MELT customerservice@dartsp.com
Emergency telephone number	516-569-7669

2. Hazards Identification

Health hazards	Eye irritation. Cat 2A
Physical hazards	Not applicable
GHS Label elements	



Signal Word	Warning
Hazard statement	Harmful if swallowed. Causes eye irritation.
Precautionary Statements	Wear protective clothing and gloves, eye and face gear, and respiratory protection. Wash hands, forearms and other exposed areas thoroughly after handling. If eyes irritate, rinse cautiously with water for several minutes; remove contact lenses.
Storage	Keep in dry cool area.
Disposal	Not applicable.
Other hazards	Not applicable.

3. Composition/Information on Ingredients

Substance/Mixture	Calcium chloride	CAS # 10043-52-4	Percent – 20-30
	Sodium chloride	CAS # 7647-14-5	Percent – 60-70
	Magnesium chloride	CAS # 7786-30-3	Percent – 5-10

4. First Aid Measures

Description of first aid measures	
Inhalation	When symptoms occur, remove victim to fresh air and keep at position most comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if possible. Get medical attention if irritation persists.

Skin contact	Flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing and clean shoes thoroughly before reuse.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Inhalation	No known significant effects or critical hazards.
Eye contact	Causes eye irritation. Adverse symptoms may include irritation, watering and/or redness.
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed.

No specific treatment but if exposed or concerned, get medical advice and attention.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known

Specific hazards arising from the chemical

Fire hazard	Not considered flammable but may burn at high temperatures.
Explosion hazard	Product is not explosive.
Reactivity	When heated to decomposition, may emit irritating fumes.

Special protective action for fire fighters No special precaution is required.

Special protective equipment for fire fighters

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

6. Accidental Release Measures

Personal precautions	Avoid breathing dust or fumes. Avoid all contact with skin or eyes.
Protective equipment	Use appropriate personal protective equipment. Evacuate unnecessary personnel. For emergency personnel, equip cleanup crew with proper protection and ventilate area.
Environmental precautions	Prevent entry to sewers and public waters. Avoid release to the environment.
Methods for cleaning up spills	Clear up spills immediately. Recover the product by vacuuming, shoveling and sweeping. Dispose of waste safely and contact competent authorities if necessary.

7. Handling And Storage

Precautions for safe handling	When heated, may emit irritating fumes. Contact with water causes an exothermic heat reaction which causes a rise in the water temperature. Do not breathe vapors.
Safety measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with soap and water after each use and before eating or drinking.
Safety conditions	Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep away from extremely high or low temperatures, direct sunlight, ignition source and incompatible materials like strong acids, oxidizers or reactive metals.

8. Exposure Controls/Personal Protection

Control parameters	No Occupational Exposure Limits (OEL's) have been established for this product or its chemical components.
Exposure controls	
Appropriate engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national and local regulations are observed. Ensure adequate ventilation.
Personal protective equipment	Protective goggles, protective clothing and gloves.
Materials for protective clothing	Chemically resistant materials and fabric. Corrosion-proof clothing.
Hand protection	Wear chemically resistant protective gloves.
Eye protection	Chemical goggles or face shield.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Not required under normal conditions of use.
Other information	When using product, do not eat or drink.

9. Physical And Chemical Properties

Information on basic physical and chemical properties	
Physical State	Solid
Appearance	White dry granules
Odor	Minimal Odor
Odor threshold	No data available
pH	No data available
Evaporation rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	No data available
Auto- ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor Pressure	No data available

Relative Vapor Density at 20° C	No data available
Relative Density	No data Available
Specific Gravity	2.076
Solubility	317 gpl @ 0°C (32°F)
Partition coefficient: n-octanol/water	No data available
Viscosity	No data available

10. Stability And Reactivity

Reactivity	When heated to decomposition, emits irritating fumes.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to avoid: Direct sunlight	Extremely high or low temperatures. Incompatible materials.
Incompatible Materials: Strong acids	Strong bases. Strong oxidizers. Reactive metals.
Hazardous Decomposition Products	Hydrogen chloride. Chlorine . Sodium oxides. Oxides of magnesium.

11. Toxicological Information

Sodium Chloride	LD50 Oral Rat	3 g/kg
	LC50 Inhalation Rat	>42 g/m3 (exposure time: 1 hour)
Calcium Chloride	LD50 Oral Rat	1000 mg/kg
	LD50 Dermal Rat	2630 mg/kg
Magnesium Chloride	LD50 Oral Rat	1000 mg/kg
	LD50 Dermal Rat	2630 mg/kg
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Causes serious eye irritation	
Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Specific target organ toxicity (Single or repeated exposure)	Not classified	
Aspiration hazard	Not classified	
Symptoms/Injuries after inhalation	May cause respiratory irritation.	
Symptoms/Injuries after skin contact	Skin contact with large amounts of dust may cause irritation.	
Symptoms/Injuries after eye contact	Causes eye irritation.	
Symptoms/Injuries after ingestion	Ingestion is likely to be harmful or have adverse effects.	

12. Ecological Information

Sodium Chloride	LC50 Fish 1 Species: Lepomis macrochirus	5560 (5560-6080) mg/l	96 hours
	EC50 Daphnia 1 Species: Daphnia magna	1000 mg/l	48 hours
	LC50 Fish 2 Species: Lepomis macrochirus	12946 mg/l	96 hours

