K42730C
MSDS #601
Custodian

MATERIAL SAFETY DATA SHEET

BENBOW CHEMICAL PACKAGING, INC.

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Section I - PRODUCT IDENTIFICATION -

Chemical Name - Calcium Chloride dihydrate

Trade Name & Synonyms - ICE MELTER
FLAKE CALCIUM CHLORIDE

Chemical Family - salt

Formula - $CaCl_2 \cdot 2H_2O$

DOT (transportation) Freight Classification - Not Regulated
description - Calcium Chloride, Ice Melter, NMF Class 43730
hazard class - none
identification # - none

Section II - COMPONENTS -

CAS #	Chemical	%	PEL	TVL
10043-52-4	Calcium Chloride	77-80%	None established	
	other salts (such as NaCl, $MgCl_2$)	<4%		
	water	balance		

Section III - PHYSICAL DATA -

Material is a solid, small, odorless, white flake or chip.
Boiling point - not a liquid @ 68 deg F
Specific Gravity 0.835
Vapor Pressure - n.a.
Vapor Density - n.a.; water vapor only
Evaporation Rate - n.a.
Solubility in water - 42% @ 20 deg C
pH - Neutral or slightly alkaline

Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point - Not Flammable
Explosive Limit - n.a.
Unusual Fire and Expolsion Hazards - None

Section V - HEALTH HAZARD DATA -

Effects of Overexposure -

Inhalation: Dust or mist may irritate nose, throat and lungs.

Ingestion: May irritate gastrointestinal tract. Low in toxicity but more toxic than sodium chloride (table salt). LD_{50}(rat): 1.4 g/kg (anhydrous basis).

Eyes: May irriate or burn eyes.

Skin: May cause skin irritation. Under conditions of prolonged contact or when moisture is present, dermatitis may result. Contact with abraded skin or cuts can cause tissue damage.

Permissible concentations: None established by OSHA. No TLV established by ACGIH.

SARA HAZARD: Considered an immediate health hazard (under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA III)). See references to Eyes and Skin.

FIRST AID -

If in eyes - Flush promptly with plenty of water, continuing for at least 15 minutes. Get medical attention.

If inhaled - remove to fresh air.

If on skin - Wash with plenty of soap and water.

If swallowed - If conscious, immediately give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Get medical attention for irritation, ingestion, or discomfort from inhalation.

Section VI - REACTIVITY DATA -

Stability - Stable

Incompatibility - Sulfuric acid: yields hydrogen chloride gas which is corrosive, irritating, and reactive.

Hazardous Decomposition Products - None

Hazardous Polymerization - Cannot occur.

Section VII - SPILL OR LEAK PROCEDURE -

In case of spill - Shovel up dry chemical and place in container for use or discard. Mop or flush residue from floor using cool water, using caution as solution can get very hot. Flush adequately to avoid leaving a slippery residue.

Waste Disposal Method - Comply with Federal, State and Local regulations.

Aquatic toxicity: TLm96: over 1000 ppm (anhydrous).

Section VIII - PROTECTIVE EQUIPMENT TO BE USED -

Ventilation - Local Exhaust: in packaging and unloading areas, over open processing equipment and in other places where dusty or misty condition prevails. Natural ventilation: adequate for other areas.

Respiratory Protection - For dusty or misty conditions, wear NIOSH approved dust or mist respirator.

Protective clothing - Wear long-sleeve shirt and trousers, boots and gloves for routine product use.

Protective gloves - Cotton gloves permitted for dry product; impervious gloves when using solutions.

Eye protection - For dust or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hat. Under these conditions do not wear contact lenses.

Use good personal hygiene and housekeeping. Avoid contact with eyes, skin and clothing. Avoid breathing dust or mist. WASH after use.

Section IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS -

Storage - Store in a cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.

Leather clothing and shoes will be damaged by calcium chloride.

Dissolving - Use cool water (less than 80 deg F, 27 deg C) when dissolving as solution can get hot.

revised June 1989.

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Benbow product code 012.