Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 03/05/2015 Supersedes: 06/01/2013 Version: 2.0

SECTION 1: Identification of the s	ubstance/mixture and	d of the company/underta	king	
1.1. Product identifier				
Trade name	: Ice Attack Ice Melter			
Product form	: Mixture			
1.2. Relevant identified uses of the su	ubstance or mixture and us	ses advised against		
Use of the substance/mixture	: Calcium Chloride Sol	ution		
1.3. Details of the supplier of the safe	ety data sheet			
Frank Miller and Sons 230 West Bogen Road Sturgis, MI 49091 708-201-7200				
1.4. Emergency telephone number				
Emergency number	: 269-659-6358			
SECTION 2: Hazards identification	1			
2.1. Classification of the substance of				
GHS-US classification				
2.2. Label elements				
GHS-US labelling				
No labelling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS-US	5)			
No data available				
SECTION 3: Composition/informa	tion on ingredients			
SECTION 3: Composition/informa 3.1. Substance	tion on ingredients			
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3.1. Substance	tion on ingredients			
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No additional information available.

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SECTION 5: Firefighting mea	asures
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical. Foam. Water spray. Sand.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from	om the substance or mixture
Fire hazard	: Product is not flammable.
Explosion hazard	: Product is not explosive.
Reactivity	: Product is hygroscopic and may give off heat while dissolving.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
5 5	chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
General measures	: Spill should be handled by trained clean-up crews properly equipped with respiratory
	equipment and full chemical protective gear (see Section 8). Evacuate area. Ventilate area. Keep upwind.
6.1.1. For non-emergency perso	nnel
Protective equipment	: Wear Protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responder	
6.1.2. For emergency responder Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air
	respirator, in case of emergency.
6.2. Environmental precaution	S
•	vent entry to sewers and public waters.
6.3. Methods and material for	containment and cleaning up
For containment	: Contain and collect as any solid. Prevent entry to sewers and public waters.
Methods for cleaning up	 Sweep up loose material. Place residues in suitable, covered, and labeled container. Dispose
methous for cleaning up	of material in compliance with local, state, and federal regulations.
6.4. Reference to other section	ns
No additional information available	
SECTION 7: Handling and st	orage
7.1. Precautions for safe hand	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Keep away from
recautions for sale handling	sources of ignition - No smoking. Use appropriate personal protection equipment (PPE). Was
	hands and other exposed areas with mild soap and water before eating, drinking or smoking
	and when leaving work. If diluting, the heat developed during diluting or dissolving is very high Use cool water (less than 80°F) and add material to water.
-	je, including any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a dry, cool and well-ventilated place.
Incompatible materials	: Moisture.
Storage area	: Store in a well-ventilated place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure control	ols/personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhau
, ppropriate engineering controls	. Trovido daoquato general and local chilador ventilation. Ose process enclosures, 100al exitad

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment	: Protective goggles. Gloves.
Hand protection	 Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
Eye protection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respiratory protection	: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
Appearance	: Crystalline solid.
Color	: Light green.
Odor	: No data available
Odor Threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 815.556 °C (>1500°F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ≈2.2
Solubility	: Soluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2 Other information	

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is hygroscopic and may give off heat while dissolving.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Contact with certain metals.

10.5. Incompatible materials

Sulfuric acid. Metals may corrode in aqueous calcium chloride solutions. Avoid contact with brass, steel, aluminum, ferrous metals or alloys thereof. Leather clothing and shoes may be damaged by calcium chloride.

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10.6. Hazardous decomposition products

Reacts slowly with (some) metals: release of highly flammable gases/vapours hydrogen. Product attracts moisture and gives off heat while dissolving. May produce toxic and noxious fumes under extreme fire conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

SECTION 12: Ecological information

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

12.1.	Toxicity	
Ecology	- general :	Based largely or completely on data for major components: this material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).
12.2. No addit	Persistence and degradability ional information available	
12.3. No addit	Bioaccumulative potential ional information available	
12.4. No addit	Mobility in soil ional information available	
12.5.	Other adverse effects	
No addit	ional information available	
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Waste tr	eatment methods :	Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Waste di	sposal recommendations :	Dispose of in accordance with local/national regulations. Do not allow the product to be released into the environment.
SECTI	ON 14: Transport information	
In accord	dance with DOT	
Not haza	ardous for transport	
Additior	nal information	

: No supplementary information available.

Transport by sea

Other information

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information

1	5.1.	US	Federal	regulations	
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Ice Melt Product Series

All chemical substances in this product are listed	in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information		
Revision date	: 03/05/2015	
Other information	: Author: ZPT.	
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
NFPA specific hazard	 W - Unusual reactivity with water. This indicates a potential hazard using water to fight a fire involving this material. When a compound is both water-reactive and an oxidizer, the W/bar symbol should go in this quadrant and the OX warning is placed immediately below the NFPA diamond. 	
HMIS III Rating		
Health	: 0	
Flammability	: 0	
Physical	: 0	
Personal Protection		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product