

**SAFETY DATA SHEET****Inferno**

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1. Product and Company Identification

Product Code:	IN43121
Product Name:	Inferno
Trade Name:	Commercial Ice Melter
Company name:	Inferno
Emergency Contact:	PERS
Information:	(800)633-8253 (844)635-8423

2. Hazards Identification**Serious Eye Damage/Eye Irritation, Category 2A**

GHS Signal Word:	Warning
GHS Hazard Phrases:	Causes serious eye irritation.
GHS Precaution Phrases:	Wash hands thoroughly after handling. Avoid breathing dust. Wear protective appropriate personal protective equipment IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
GHS Response Phrases:	Store in a closed container. Store in a dry place.
GHS Storage and Disposal Phrases:	
Potential Health Effects (Acute and Chronic)	Acute: May be harmful in contact with skin or if inhaled. May cause burning of eyes and flow of tears. May be harmful if swallowed. Chronic: May cause kidney damage
Inhalation:	Causes respiratory tract irritation. May be harmful if inhaled. No hazard expected in normal industrial use.
Skin Contact:	May cause skin irritation. Low hazard for usual industrial handling. May be harmful if absorbed through skin.
Eye Contact:	May cause eye irritation
Ingestion:	May cause irritation of digestive tract. May be harmful if swallowed. No hazard expected in normal industrial use.

3. Composition

CAS #	Components (Chemical Name)
7647-14-5	Sodium chloride
7447-40-7	Potassium chloride
7786-30-3	Magnesium chloride
76123-46-1	Calcium Magnesium Acetate



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4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear

In Case of Skin Contact: Wash skin with soap and water. Get medical aid if irritation develops or persists. Wash clothing before reuse.

In Cases of Eye Contact: Flush eyes with plenty of water at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

In Case of Ingestion: DO NOT induce vomiting. Get medical aid if irritation or symptoms occur. If victim is conscious and alert, give 2-4 cupful's of milk or water.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Fire Fighting Instruction: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Material will not burn.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Environmental Precautions: If possible, dispose of unused product by completely using it for its intended purpose according to label instructions.

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

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7. Handling and Storage

Precautions To Be Taken in Handling:	Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Wash thoroughly after handling.
Precautions To Be Taken in Storing:	Store in a closed container and in a dry place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7647-14-5	Sodium chloride	No data.	No data.	No data.
7447-40-7	Potassium chloride	No data.	No data.	No data.
7786-30-3	Magnesium chloride	No data.	No data.	No data.
76123-46-1	Calcium Magnesium Acetate	No data.	No data.	No data.
Respiratory Equipment (Specific Type):	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Respirator protection is not normally required.			
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Wear appropriate protective clothing to minimize contact with skin. Protective garments not normally required.			
Engineering Controls (Ventilation etc.):				

9. Physical and Chemical Properties

Physical States:	[] Gas [] Liquid [X] Solid
Appearance and Odor:	Translucent blue, granular solid No apparent odor.
pH:	No data.
Melting Point:	>700.00 C
Boiling Point:	No data.
Flash Pt:	No data.
Evaporation Rate:	No data.
Flammability (solid, gas):	No data.
Explosive Limits:	LEL: No data.
Vapor Pressure (vs. Air at mm Hg):	No data.
Vapor Density (vs. Air = 1)	No data.
UEL:	No data.

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Specific Gravity (Water = 1)	No data.
Bulk Density	65 – 80 LB/CF
Solubility in Water	357 g/L – (NaCl) at 25.0 C
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable []	Stable [X]
Conditions To Avoid –	Incompatible materials, dust generation, Excess heat.	
Instability:		
Incompatibility –	Strong oxidizing agents, Strong acids, potassium permanganate, attacks metals in	
Materials To Avoid:	the presence of moisture.	
Hazardous	Hydrogen chloride, chlorine, sodium oxide.	
Decomposition or		
Byproducts:	Will Occur []	Will not occur [X]
Hazardous Reactions:		
Conditions to Avoid –	No data available.	
Hazardous Reactions:		

11. Toxicological Information

Toxicological Information :	Epidemiology: No information found. Teratogenicity: No information available. Neurotoxicity: No data available. Teratogenicity: No data available.
	CAS# 7647-14-5: Sodium chloride: Acute toxicity, TDLo, Oral, Human, 12357. MG/KG, 23 D; American Journal of Digestive Diseases., For publisher information, see DDSCDJ, New York, NY, Vol/p/yr: 21,180, 1954
	Acute toxicity, LD50, Oral, Rat, 3.000 GM/KG; Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 20,57, 1971
	Acute toxicity, LC50, Inhalation, Rat, > 42.00 GM/M3, 1 H; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 20-3, 1971

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Standard Draize Test, Skin, Species: Rabbit, 50.00 MG, 24 H; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 20-3, 1971

Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 20-3, 1971

CAS# 7447-40-7: Potassium chloride: Acute toxicity, LD50, Oral, Rat, 2600. MG/KG; "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyculu Praha Czechoslovakia, Vol/p/yr: -,8, 1972

Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, 24 H; "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyculu Praha Czechoslovakia, Vol/p/yr: -,8, 1972

CAS# 7786-30-3: Magnesium chloride: Acute toxicity, LD50, Oral, Rat, 2800. MG/KG; Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 35,1, 1929

Carcinogenicity/Other information:**Carcinogenicity**

CAS #	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
7786-30-3	Magnesium chloride	n.a.	n.a.	n.a.	n.a.
76123-46-1	Calcium Magnesium Acetate	n.a.	n.a.	n.a.	n.a.

12. Ecological Information**General Ecological Information:**

Other: Do not empty into drains.

CAS# 7647-14-5: Sodium chloride:

LC50, Rainbow Trout (Oncorhynchus mykiss), egg(s), 7461000. UG/L, 96 H, Mortality, Water temperature: 9.80 C C, pH: 7.65, Hardness: 46.00 mg/L; Criteria Document Data. Memorandum to D.J. Call, Center for Lake Superior Environmental Studies, University of Wisconsin-Superior. September 16, 1986, Spehar, R.L., 1986

CAS# 7447-40-7: Potassium chloride:

LC50, Rainbow Trout (Oncorhynchus mykiss), 1610000. UG/L, 48 H, Mortality, Water temperature: 17.00 C C, pH: 7.70, Hardness: 40.00 MG/L; Toxicity of Candidate Molluscicides to Zebra Mussels (Dreissena polymorpha) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher, and H. Dabrowska, 1993

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13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. Transport Information**LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:**UN/NA Number:****15. Regulatory Information****EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7647-14-5	Sodium chloride	No	No	No
7447-40-7	Potassium chloride	No	No	No
7786-30-3	Magnesium chloride	No	No	No
76123-46-1	Calcium Magnesium Acetate	No	No	No
This material meets the EPA "Hazard Categories" defined for SARA Title III Sections 311/312 as indicated:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Acute (immediate) Health Hazard Chronic (delayed) Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		
CAS #	Components (Chemical Name)	Other US EPA or State Lists		
7647-14-5	Sodium chloride	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes – Inventory; CA TAC, Title 8: No; MA Oil/HazMat: NO; MI CMR, Part 5: NO; NJ EHS: No; NY Part 597: No; PA HSL: No		
7447-40-7	Potassium chloride	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes – Inventory; CA TAC, Title 8: No; MA Oil/HazMat: NO; MI CMR, Part 5: NO; NJ EHS: No; NY Part 597: No; PA HSL: No		
7791-18-6	Magnesium chloride	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes – Inventory; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: NO; NJ EHS: No; NY Part 597: No; PA HSL: No		

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76123-46-1 Calcium Magnesium Acetate

CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes – Inventory; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: NO; NJ EHS: No; NY Part 597: No; PA HSL: No

16. Other Information**Revision Date:**

09/26/18

Hazard Rating System:**Additional Information About This Product:**

No data available.

Company Policy or Disclaimer:

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