

1. Product and Company Identification	
<b>Product Code:</b>	<b>MLE43039</b>
<b>Product Name:</b>	meltco Lake Effect
<b>Trade Name:</b>	Commercial Ice Melter
<b>Company name:</b>	meltco Inc. 6-425 Hespeler Road, Suite 313 Cambridge, ON N1R 8J8
<b>Emergency Contact:</b>	PERS (800)633-8253
<b>Information:</b>	meltco Inc. (844)635-8423

2. Hazards Identification	
<b>Serious Eye Damage/Eye Irritation, Category 2A</b>	
	
<b>GHS Signal Word:</b>	<b>Warning</b>
<b>GHS Hazard Phrases:</b>	Causes serious eye irritation.
<b>GHS Precaution Phrases:</b>	Wash hands thoroughly after handling. Avoid breathing dust.
<b>GHS Response Phrases:</b>	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.
<b>GHS Storage and Disposal Phrases:</b>	Store in a closed container. Store in a dry place.
<b>Potential Health Effects (Acute and Chronic)</b>	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
<b>Inhalation:</b>	Causes respiratory tract irritation. May be harmful if inhaled. No hazard expected in normal industrial use.
<b>Skin Contact:</b>	May cause skin irritation. Low hazard for usual industrial handling. May be harmful if absorbed through skin.
<b>Eye Contact:</b>	May cause eye irritation
<b>Ingestion:</b>	May cause irritation of digestive tract. May be harmful if swallowed. No hazard expected in normal industrial use.

3. Composition	
<b>CAS #</b>	<b>Components (Chemical Name)</b>
7647-14-5	Sodium chloride
10043-52-4	Calcium chloride
7786-30-3	Magnesium chloride

<b>4. First Aid Measures</b>	
<b>Emergency and First Aid Procedures:</b>	
<b>In Case of Inhalation:</b>	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
<b>In Case of Skin Contact:</b>	Wash skin with soap and water. Get medical aid if irritation develops or persists. Wash clothing before reuse.
<b>In Cases of Eye Contact:</b>	Flush eyes with plenty of water at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
<b>In Case of Ingestion:</b>	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.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

<b>5. Fire Fighting Measures</b>	
<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
<b>Fire Fighting Instruction:</b>	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.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

<b>6. Accidental Release Measures</b>	
<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	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.
<b>Environmental Precautions:</b>	If possible, dispose of unused product by completely using it for its intended purpose according to label instructions.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	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.

<b>7. Handling and Storage</b>
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<b>Precautions To Be Taken in Handling:</b>	Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation. Wash thoroughly after handling.
<b>Precautions To Be Taken in Storing:</b>	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.
10043-52-4	Calcium chloride	No data.	No data.	No data.
7786-30-3	Magnesium chloride	No data.	No data.	No data.
<b>Respiratory Equipment (Specific Type):</b>	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.			
<b>Eye Protection:</b>	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.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure. Wear appropriate protective clothing to minimize contact with skin. Protective garments not normally required.			
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Good general ventilation should be sufficient to control airborne levels.			

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

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

<b>10. Stability and Reactivity</b>	
<b>Stability:</b>	Unstable [ <input type="checkbox"/> ]                      Stable [ <input checked="" type="checkbox"/> ]
<b>Conditions To Avoid –</b>	Incompatible materials, dust generation, Excess heat.
<b>Instability:</b>	
<b>Incompatibility –</b>	Strong oxidizing agents, Strong acids, potassium permanganate, attacks metals in the presence of moisture.
<b>Materials To Avoid:</b>	
<b>Hazardous Decomposition or Byproducts:</b>	Hydrogen chloride, chlorine, sodium oxide.
<b>Possibility of</b>	Will Occur [ <input type="checkbox"/> ]                      Will not occur [ <input checked="" type="checkbox"/> ]
<b>Hazardous Reactions:</b>	
<b>Conditions to Avoid –</b>	No data available.
<b>Hazardous Reactions:</b>	

<b>11. Toxicological Information</b>	
<b>Toxicological Information :</b>	<p>Epidemiology: No information found.</p> <p>Teratogenicity: No information available.</p> <p>Neurotoxicity: No data available.</p> <p>Teratogenicity: No data available.</p> <p>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</p> <p>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</p> <p>Acute toxicity, LC50, Inhalation, Rat, &gt; 42.00 GM/M3, 1 H; BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 20-3, 1971</p>

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# 10043-52-4: Calcium chloride: Acute toxicity, LD50, Oral, Mouse, 1940. MG/KG; Oyo Yakuri. Pharmacometrics., Oyo Yakuri Kenkyukai, CPO Box 180, Sendai 980-91 Japan, Vol/p/yr: 14,963, 1977

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.
10043-52-4	Calcium chloride	n.a.	n.a.	n.a.	n.a.
77786-30-3	Magnesium chloride	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

**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
10043-52-4	Calcium chloride	No	No	No
77786-30-3	Magnesium chloride	No	No	No

**This material meets the EPA "Hazard Categories" defined for SARA Title III Sections 311/312 as indicated:**

[X] YES [ ] NO  
[ ] YES [X] NO

Acute (immediate) Health Hazard  
Chronic (delayed) Health Hazard  
Fire Hazard  
Sudden Release of Pressure Hazard  
Reactive Hazard

**Other US EPA or State Lists**

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
10043-52-4	Calcium 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

**16. Other Information**

**Revision Date:**  
**Hazard Rating System:**

06/10/2019



**Additional Information About This Product:**  
**Company Policy or Disclaimer:**

No data available.  
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**SAFETY DATA SHEET**  
**meltco Lake Effect**

Page:7

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for the reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.