

# Liquid Ice-Mlt®: Technical Information

Belt Deicer,  
Ice Melter,  
Anti-Icing  
Agent

## DESCRIPTION



Liquid Ice-Mlt is a multi-component, glycol and chloride based liquid belt deicer and anti-icing agent. It eliminates coal and material handling problems caused by ice glazing and fines build-up on conveyor belts.

## APPLICATIONS



Liquid Ice-Mlt can be sprayed on top of the conveyor belt to prevent ice glaze, or if ice glaze is present it will melt the ice upon application. Application of Liquid Ice-Mlt to tail pulleys, the bottom cover, or trough idlers can prevent ice build-up caused by precipitation or moisture from the coal. Liquid Ice-Mlt should be applied prior to shut-down to prevent ice formation. Application at start-up or during operation can speed removal of ice and prevent further accumulation.

## PHYSICAL PROPERTIES



<b>Specific Gravity:</b>	1.26 – 1.28 Kg/L
<b>Weight per Gallon (US):</b>	10.50 – 10.66 lb./gallon
<b>Appearance:</b>	Pink tinted liquid
<b>Odor:</b>	Slight sweet odor
<b>pH:</b>	5 – 6
<b>Freezing Point:</b>	-40°F
<b>Solubility in Water:</b>	Complete
<b>OSHA Hazard:</b>	Toxic, irritant
<b>Flammability:</b>	Non-flammable, non-combustible
<b>Stability:</b>	Stable under normal handling conditions
<b>Corrosiveness:</b>	All chlorides are corrosive to some degree to most metals, particularly aluminum and its' alloys.
<b>Incompatibilities:</b>	Strong oxidizing materials, organic salts (potassium acetate, sodium acetate)

# Liquid Ice-Mlt<sup>®</sup>: Frequently Asked Questions

Winter  
Operating  
Agent

## What is Liquid Ice-Mlt?

Liquid Ice-Mlt is a conveyor belt anti-icer and deicer that enables you to maintain operations in extreme conditions of cold weather or when coal contains moisture. It is a multi component liquid belt agent. It is a special blend of diethylene glycol, chlorides, and various other proprietary ingredients which enhance ice melting, prevent ice build-up on equipment and crystallization in nozzles.

## How long does Liquid Ice-Mlt last?

Its longevity will be dependent on weather conditions and whether snowfall is dry or wet. Visual inspection is the best method to determine reapplication.

## How much does Liquid Ice-Mlt cost?

A Midwest Sales Representative can give you current pricing and availability by calling 1.800.321.0699 x125 or email [custserv@midwestind.com](mailto:custserv@midwestind.com).

## How much Liquid Ice-Mlt do you have to use?

Spray the conveyor belt(s) with Liquid Ice-Mlt one complete revolution (spraying at rate of 1 gal/minute). This is all that is needed each time you apply, do not "flood" belt, a light spray is all that is required. Frequency of application is determined by operating conditions, temperature and moisture.

## Is Liquid Ice-Mlt corrosive?

Yes, Liquid Ice-Mlt contains chloride therefore it is corrosive.

## How do you apply Liquid Ice-Mlt?

Midwest recommends installing our Cobra™ Winter Spray Systems. They are low-pressure systems that utilize special spray header design and placement to prevent any of the product from becoming airborne. There are four types of Cobra Winter Spray Systems designed to meet your specific needs:

- COBRA™ Auto-Spray System - Is programmed to turn on automatically and will spray the top cover, bottom cover or both simultaneously. It will then turn itself off and is ready for the next pre-programmed spraying cycle.

- COBRA™ "Press and Go" Spray System - Just press START and walk away; the system will spray for a pre-set time and then turn itself off.
- COBRA™ Manual Spray System - Turned on and off manually using a toggle switch located on the unit.

## How often should Liquid Ice-Mlt be applied?

Your application frequency will vary on the weather activity, belt hardness and moisture in the material (fuel). Belt hardness testing is available upon request.

## Is Liquid Ice-Mlt biodegradable?

No, since Liquid Ice-Mlt contains chloride it will not biodegrade.

## Is Liquid Ice-Mlt flammable?

No, Liquid Ice-Mlt is not flammable as it does not contain any alcohols or methanol.

## What is the shelf life of Liquid Ice-Mlt?

As a company policy we normally recommend using the product within a year, but this product will not separate or settle and would be fine beyond the one year recommendation so it could be used from a previous winter. (\*must be stored in a closed or unopened container).

## How is Liquid Ice-Mlt packaged?

Liquid Ice-Mlt is available in 5-gallon plastic pails, 55-gallon plastic drums, 275-gallon steel-caged totes and bulk truckloads of 1,000 gallons and up.