



Material Safety Data Sheet

April 23, 2010

Corporate Office: 8032 N State Road 9, Greenfield, IN 46140

1 -- IDENTIFICATION

imix Winter Abrasive Mix

2 -- PRODUCT AND COMPONENT DATA

imi Winter Abrasive Mix is a combination of natural sand and liquid calcium chloride solution.

<u>Ingredients</u>	<u>% (approximate)</u>	<u>CAS No.</u>
Natural Sand* <i>*Composition varies naturally</i>	94 - 97	None
Calcium Chloride Solution**	3 - 6	10043-52-4
** Components		
Calcium Chloride	28 - 42	10043-52-4
Potassium chloride	0 - 3	7447-40-7
Sodium Chloride	0 - 2	7647-14-5
Water	53 - 72	7732-18-5

**These ingredients may have quartz [silica (SiO₂)] as a component. The percent of silica varies greatly from product to product and also within the same product. Silica exposure may occur when respirable dust is present. Dust is not typically present in imix Winter Abrasive Mix. The OSHA-PEL for respirable crystalline silica = 10 mg/m³ ÷ (%SiO₂ + 2) and the ACGIH TLV for respirable silica = 0.05 mg/m³.*

This MSDS has been developed from information provided on a material safety data sheet from The Dow Chemical Company for LIQUIDOW*** Technical Grade Calcium Chloride and a material safety data sheet for natural sand or gravel by Irving Materials, Inc. Component product Material Safety Data Sheets are available upon request.

***Indicates a Trademark

3-- PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Color	Angular or round multicolored particles.
Specific Gravity (H₂O = 1)	2.5 - 3.0
Odor	Odorless
Melting Point	NA
Boiling Point	NA
Evaporation Rate (Butyl Acetate = 1)	NA
Vapor Pressure	NA
Vapor Density (Air = 1)	NA
Solubility in Water	Slight (Calcium Chloride Solution only)
pH (in water)	9 or less (<i>estimated</i>)

4 -- FIRE AND EXPLOSION HAZARD

Flash point	NA	Flammable Limits	NA
LEL	NA	UEL	NA
Extinguishing Media	NA	Special Fire Fighting Procedures	NA
Unusual fire and Explosion Hazards	None		

5 -- REACTIVITY DATA

Stability	Stable
Conditions to Avoid	None known
Incompatibility (Materials to avoid)	Avoid contact with strong acids. Corrosive to some metals.
Hazardous Decomposition Products	None known
Hazardous Polymerization	Will not occur
Thermal Decomposition	Does not decompose

6 -- HEALTH HAZARDS

Potential Health Effects:

Eye Contact: May cause eye irritation by mechanical abrasion.

Skin Contact: Brief contact is essentially nonirritating to skin. May cause a more severe response if skin is abraded (scratched or cut). Prolonged contact may cause skin burns.

Skin Absorption: prolonged skin contact is unlikely to be a significant route of exposure.

Inhalation: Dusts may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits.

Ingestion: Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation and blockage.

Emergency and First Aid Procedures: Irrigate eyes with copious amounts of water. Wash exposed areas of the body with soap and water. Saturated or contaminated clothing should be removed and washed before re-use. If irritation persists, obtain medical attention.

Carcinogenic Potential: **imix Winter Abrasive** would not be considered to have any carcinogenic potential when used as recommended. Natural sand and gravel contains silica which may be released in the form of respirable dust. Respirable crystalline silica is classified by IARC (International Agency for Research on Cancer) as a known human carcinogen and by NTP (National Toxicology Program) as "reasonably anticipated to be a carcinogen." Crystalline silica in imix Winter Abrasive is not expected to be respirable and should not pose a health hazard. See **Additional Precautions** in Section 7 below.

7 -- PRECAUTIONS FOR SAFE HANDLING AND USE

Personal Protective Equipment: Use gloves, boots, and clothing to protect skin from prolonged contact with imix Winter Abrasive. Particularly protect abrasions of the skin from contact with imix Winter Abrasive because of the calcium chloride solution, which may cause a burning sensation. Wear safety glasses when placing to prevent irritation and mechanical abrasion of the eyes.

Additional Precautions: Repeated and prolonged inhalation of respirable crystalline silica in excess of appropriate exposure limits can cause scarring of the lungs or a progressive lung disease called silicosis. Silicosis may aggravate other chronic lung related conditions. Smoking is strongly suspected of aggravating the effects of silica exposure and may increase the risk of lung cancer. Engineering controls such as dust suppression or capture should be employed. When this is not possible a NIOSH - MSHA approved respirator should be used when the TLV is exceeded.

8 -- PREPARATION OF THIS DOCUMENT

Prepared by: Irving Materials, Inc.
8032 North SR 9
Greenfield, Indiana 46140
(317) 326-3101

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