

CHEMFAX PRODUCTS Ltd.

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In Case of Emergency Only:
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'LIQUID FIRE'

WHMIS CODES: Not regulated under WHMIS

SECTION 1: MATERIAL IDENTIFICATION

Product Identifier: Liquid Fire
Chemical Name: Mixture
Chemical Family: Not available
Chemical Formula: Not available
Molecular Weight: Not available
Trade Name-Synonym: Liquid Fire
Material Use: Liquid ice melter
Flammability: 0
Reactivity: 0
Health: 0
Personal Protection: 0

SECTION 2: HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients: All components are non hazardous

SECTION 3: PHYSICAL DATA FOR MATERIAL

Physical State: Liquid
Odour and Appearance: Slightly hazy, colourless and odourless liquid
Odour Threshold (PPM): Not applicable
Specific Gravity: 1.294
Vapour Pressure (mm Hg): Not applicable
Vapour Density (air = 1): Not applicable
Boiling Point (°C): No data
Solubility in Water: Excellent
% Volatile: 0
pH: 7
Density: Not available
Coefficient of Water/Oil: Not available
Freezing Point: -51 °C as a 30% solution

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammability: Not applicable
Flash Point (°C): Not applicable
Upper Flammable Limit (% by volume): Not applicable
Lower Flammable Limit (% by volume): Not applicable
Autoignition Temperature (°C): Not applicable
Hazardous Combustion Products: May evolve toxic fumes such as chlorine
Explosive Power: Explosive mixture formed with Furan -2-peroxy caroxylic acid
Sensitivity to Static Discharge: Not applicable
Means of Extinction: This material is not combustible, use fire fighting media relevant to surrounding materials

Special Procedures: If product is involved in a fire, fire fighters should wear self contained breathing apparatus. Use water spray to cool nearby containers and structures exposed to fire.

SECTION 5: REACTIVITY

Chemical Stability: Stable
Under Fire Conditions: Not considered flammable, may burn if involved in a fire, toxic gases / fumes may be evolved (chlorine gas)
Incompatibility to Products: Incompatible with some acids and methyl vinyl ether
Reactivity, and under what Conditions: Exothermic reaction when dissolved in water
Hazardous Decomposition Products: May generate hydrogen gas in contact with metals such as sodium
Hazardous Polymerization: Will occur with methyl vinyl ether
Conditions to Avoid: Contact with methyl vinyl ether and furan -2-peroxy caroxylic acid
Materials to Avoid: Materials as listed above

SECTION 6: TOXICOLOGICAL AND HEALTH DATA

Route of Entry Skin Contact: No
Route of Entry Skin Absorption: No
Route of Entry Eye Contact: Yes
Route of Entry Inhalation Acute: Yes - may cause irritation to upper respiratory tract
Route of Entry Inhalation Chronic: No
Route of Entry Ingestion: Yes - intestinal irritation
Reproductive Effects: Not known, but calcium chloride will pass through the placental barrier
Mutagenicity: No data
Teratogenicity: No data
Carcinogenicity: No data
Synergenistic Materials: No data
Sensitization to Product: Prolonged skin exposure to the product may cause irritation, open sores will experience more intense effects
Exposure Limits: Not established
Irritancy of Product: Irritant
LD50 LC50/Species/Route: LC50: 4600 mg/l (Trout)
Effects of Chronic Exposure: None known
Effects of Acute Exposure: Prolonged skin exposure to the product may cause irritation, open sores will experience more intense effects. Not classified as corrosive. Product is not generally absorbed through the skin, unless skin is broken or cut.

SECTION 7: PREVENTATIVE MEASURES

Personal Protective Equipment: None required under normal use. Under large volume production and packaging it is recommended to use the following protective equipment.
Gloves (Specify): Rubber
Respirator (Specify): Not generally needed under normal conditions of use
Eyes (Specify): Safety goggles
Footwear (Specify): Safety boots suitable for work site
Clothing (Specify): Normal work clothing.
Other (Specify): Eye wash fountain, safety shower
Engineering Controls: Local exhaust ventilation
Leak and Spill Procedure: Wear protective equipment as indicated above. Dispose of

Waste Disposal: in approved containers. Dispose of according to Federal, Provincial and Local Regulations. Note: empty containers can have residues and are subject to proper waste disposal as above.

Handling Procedures and Equipment: Keep container tightly closed when not in use. Wash thoroughly after handling. Do not get in eyes, skin or on clothing. Handle empty containers as if they were full.

Storage Requirements: Store in a cool and very dry area.

Special Shipping Information: Non-Regulated

SECTION 8: FIRST AID MEASURES

Skin: Immediately wash skin with plenty of soap and water. Remove contaminated clothing and shoes, wash before reuse. Get medical attention if irritation persists after washing.

Eyes: Immediately flush with lots of running water for at least 15 minutes lifting the upper and lower eye lids occasionally. Get medical attention immediately.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention immediately.

General Advice: Keep out of reach of children.

SECTION 9: PREPARATION DATE OF M.S.D.S.

Prepared by: Technical Service Dept., Chemfax Products Ltd.
(403)287-2055 February 22,2005 Revised: February 1, 2007

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