

MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

LAHALT PART B

COMPANY IDENTIFICATION:

Lahlat, LLC
1926 Rankin Rd., Suite 110
Houston, TX 77073

EMERGENCY TELEPHONE NUMBERS:

Health **1-800-424-9300**
Transportation **1-800-424-9300**

PRODUCT INFORMATION: MSDS Requests: **1-800-424-9300**
Environmental, Safety & Health Info: **1-800-424-9300**
Product Information: **1-800-424-9300**

COMPOSITION INFORMATION ON INGREDIENTS

100.0% PART B

CONTAINING

COMPONENTS	AMOUNT
ACTIVATOR Chemical Name: Calcium Chloride 10043-52-4	<18.0%
WATER Chemical Name: Water CAS 7732-18-5	< 72.0%

PHYSICAL DATA

Melting Point: Approx. 1424°F, 772°C
Boiling Point: >1500°F, >815°C
Vapor Press: <0.005 mHg @ 20°C
Vapor Density: N/A
Solubility in H²O: Very Soluble.
Sp. Gravity: 2.2
Appearance: White to off white, solid – pellets
Odor: Odorless

FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Method Used: N/A
Flammable Limits: LFL: N/A UFL: N/A
Extinguishing Media: Non-combustible
Fire & Explosion Hazard: None
Fire-Fighting Equipment: Wear positive pressure self-contained breathing apparatus

REACTIVITY DATA

Stability: (CONDITIONS TO AVOID) Decomposes > 400°F

Incompatibility: (SPECIFIC MATERIALS TO AVOID) corrosive to some metals; attacks aluminum (and its alloys) and yellow brass; reacts with sulfuric acid to form hydrogen chloride which is corrosive, irritating, and reactive; has an exothermic reaction when mixed with water; reactive to materials such as sodium and zinc; results in a runaway polymerization reaction with methyl vinyl ether (Bretherick, 1979); and, in solution form, reacts with zinc (galvanizing) and sodium to yield hydrogen gas which is explosive (Ibid), (Bretherick, L., 1979, Handbook of Reactive Chemical Hazards, 2nd Ed.).

Hazardous Decomposition Products: N/A

Hazardous Polymerization: See above

ENVIRONMENTAL AND DISPOSAL INFORMATION

Action to take for spills/leaks: Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. Wear appropriate safety apparel during clean-up – see Section B. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects, avoid contact with vegetation, animals, and fish life. Recover quickly into suitable, dry, sealable containers if reusing. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product – avoid by thoroughly water washing surfaces.

Disposal Method: Comply with federal, state and local laws, regulations and procedures. Contact manufacturer and authorities for detailed information. Product as sold is not a RCRA listed or characteristic hazardous waste.

HEALTH HAZARD DATA

Eye: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal.

Skin Contact: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. "When dissolving, the heat produced may cause more intense effects, as well as, thermal burns. DOT classification: Non-corrosive.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >5000 mg/kg.

Ingestion: Single dose oral toxicity is low. The oral LD50 for rats is in the range of 900-2100 mg/kg for calcium chloride on a 100% basis. Ingestion may cause gastrointestinal irritation or ulceration.

Inhalation: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract.

Systemic & Other Effects: The components of this product are not listed by IARC, NTP, or OSHA as a carcinogen for hazard communication purposes. Results of in vitro mutagenicity tests have been negative for calcium chloride.

FIRST AID MEASURES

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

Skin: wash off in flowing water or shower.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. (Never give anything by mouth or attempt to induce vomiting in an unconscious person.)

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Note to Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care Treatment based on judgement of the physician in response to reactions

of the patient.

HANDLING AND STORAGE INFORMATION

Exposure Guideline(s): Manufacturer's IHG is 10 mg/m³ for calcium chloride, sodium chloride and potassium chloride. There is no OSHA PEL or ACGIN TLV for calcium chloride.

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

Skin Protection: For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

Eye Protection: Safety glasses should be sufficient for most operations; however, for dusty operations or when handling solutions of the material, wear chemical goggles. Eye wash fountain should be located in immediate work area.

Handling/Storage: SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid eye and prolonged skin contact. ALWAYS USE COOL WATER (Temperature less than 80°F, 27°C) WHEN DISSOLVING CALCIUM CHLORIDE. HEAT DEVELOPED BY SOLUTIONS IS VERY HIGH DURING DISSOLVING AND MIXING. When exposed to the atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride.

REGULATORY INFORMATION

Regulatory Information: (Not meant to be all-inclusive—selected regulations represented).

Notice: The information herein is presented in good faith and believed to be accurate. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. Regulations: SARA Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard

Canadian Regulations: The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classification for this product is: D2B

Transportation: The Transportation of Dangerous Goods Act (T.D.G.A.) Classification for this product is: Not regulated.

HMIS Hazard Rating: Health Hazard: 1 Fire Hazard: 0 Reactivity: 0

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.