

MATERIAL SAFETY DATA SHEET
Prepared according to 29 CFR 1910.1200

DATE PREPARED: August 1991
DATE REVISED: March, 2010

PAGE 1
MSDS NO: 140A

SECTION I - IDENTIFICATION

L&M CONSTRUCTION CHEMICALS, INC
14851 CALHOUN ROAD
OMAHA, NE 68152

ASSISTANCE (CHEMTREC) 800-424-9300
EMERGENCY PHONE NO. 402-453-6600

ID NO.: N/Ap

PRODUCT
NAME: **DURATOP** Component A

DOT CLASS: N/Ap

CHEMICAL
NAME: Cement Based Mortar

DOT SHIPPING
NAME: N/Ap

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| Substance | CAS Number | OSHA PEL | ACGIH TLV-TWA | MSHA Exposure Limits |
|--------------------------------------|------------|---------------------------------------|---|---------------------------------------|
| Portland Cement -total dust | 65997-15-1 | 15mg/m ³ | 10 mg/m ³ | 10 mg/m ³ |
| Portland Cement - respirable dust | 65997-15-1 | 5 mg/m ³ | Not Applicable | Not Applicable |
| Quartz | 14808-60-7 | 10 mg/m ³ (% silica =2) | 0.05 mg/m ³ (respirable fraction) | 10 Mg/m ³ (% silica +2) |

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (F): None DURATOP A is a powdered solid.
VAPOR PRESSURE (mm Hg): None
VAPOR DENSITY (AIR = 1): None
SOLUBILITY IN WATER: Slight
APPEARANCE: Grey Powder
ODOR: None

SPECIFIC GRAVITY (H₂O = 1): 2.65
PERCENT VOLATILE BY VOLUME: None
MELTING POINT: Above 1000°F
BULK DENSITY: N/Ap
PH INFORMATION: N/Ap
EVAPORATION RATE: None

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARDS FIRES:
FLASH POINT, °F, (method used): N/Ap DURATOP A is non-combustible
FLAMMABLE LIMITS - LEL: N/Ap UEL: N/Ap

EXTINGUISHING MEDIA: N/Ap

SPECIAL FIRE FIGHTING PROCEDURES: N/Ap

SECTION V - REACTIVITY DATA

STABILITY: unstable: stable: X Keep dry until used.
INCOMPATIBILITY (materials to avoid): Avoid mixing with strong acids.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None
HAZARDOUS POLYMERIZATION: may occur: will not occur: X
CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD DATA**DURATOP Component A**

POTENTIAL EFFECTS OF EXPOSURE (listed by primary routes of entry)

INHALATION: Product contains crystalline cement and quartz silica. Repeated inhalation of silica in excess of the TLV over extended periods can cause silicosis.

SKIN: Dryness, itching, rashes and burns can develop following skin contact. Skin abrasions can occur if material is rubbed against skin. Dermatitis and skin sensitization can develop after repeated or prolonged skin contact.

INGESTION: No toxic effects are known to be associated with ingestion of this material.

EYE CONTACT: This material can irritate and may burn eyes following direct contact. The aggregate particles may cause abrasions of the cornea.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If cough, irritation, difficulty in breathing or other respiratory symptoms persist to develop, consult a physician. Note to physician: mucosal injury following ingestion of this material may contraindicate the induction of vomiting in the treatment of possible ingestion.

SKIN: Rinse skin free of material with water to avoid abrasion of skin. Do not rub until skin is free of material then wash thoroughly with soap and water. If redness persists, seek medical attention. Remove and decontaminate clothing and footwear before reuse.

INGESTION: Give one to two glasses of water to drink and refer to medical personnel.

EYE CONTACT: Do not rub eyes. Rinse immediately with plenty of water for at least 15 minutes and consult a physician immediately.

CARCINOGENICITY OSHA: No NTP: No IARC: No

HMIS: Health Hazard: 1, Fire Hazard: 0, Reactivity: 0, Personal Protection: A

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: No hazards. Sweep up and maintain normal housekeeping procedures. If necessary, dike spills of material and shovel into waste containers. Avoid generating dust.

WASTE DISPOSAL METHOD: No hazards. Reuse powder if uncontaminated. Discarded product is non-hazardous waste under RCRA (40 CFR, Part 261). Dispose as non-hazardous waste in compliance with local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Minimize broken bags and spilled materials by employing good handling procedures. Store in a cool, dry area off the ground. Avoid contact with acids and oxidizers.

OTHER PRECAUTIONS: Minimize dust generation. Avoid eye and skin contact. Avoid breathing dust.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH approved particulate mask..

VENTILATION

LOCAL EXHAUST: Use when possible to minimize exposure.

PROTECTIVE GLOVES: Recommended

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK/HYGIENIC PRACTICES: Decontaminate clothing and footwear before reuse.

END OF MSDS

MATERIAL SAFETY DATA SHEET

Prepared according to 29 CFR 1910.1200

DATE PREPARED: December, 1990

DATE REVISED: March, 2010

PAGE 1

MSDS NO: 140B

SECTION I - IDENTIFICATION

L & M CONSTRUCTION CHEMICALS, INC.
14851 CALHOUN ROAD
OMAHA, NE 68152

ASSISTANCE (CHEMTREC) 800-424-9300
EMERGENCY PHONE NO. 402-453-6600

ID NO.: N/Ap

PRODUCT

NAME: **DURATOP Component B**

DOT CLASS: N/Ap

CHEMICAL

NAME: Acrylic Emulsion Solution

DOT SHIPPING

NAME: N/Ap

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| INGREDIENTS | CAS | OSHA PEL | % wt |
|--|-----------|-----------------|--------|
| Polyethylene glycol octyl phenyl ether | 9036-19-5 | Not established | 1 – 3% |

Unlisted ingredients are not hazardous per the Occupational Safety and Health Administration Hazard Communication Standard (29CFR 1910.1200).

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (F): 212

VAPOR PRESSURE (mm Hg): 17-20°

VAPOR DENSITY (AIR = 1): >1 Water

SOLUBILITY IN WATER: 100%

APPEARANCE: Milky White

ODOR: Mild

SPECIFIC GRAVITY (H₂O = 1): 1.12

PERCENT VOLATILE BY VOLUME: 59

FREEZING POINT: 32°F

BULK DENSITY: 8.9#/gal.

PH INFORMATION: 9.0-9.5

EVAPORATION RATE: >1 Water

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, °F,: N/Ap

FLAMMABLE LIMITS - LEL: N/Ap

UEL: N/Ap

EXTINGUISHING MEDIA: N/Ap

SPECIAL FIRE FIGHTING PROCEDURES: N/Ap

SECTION V - REACTIVITY DATA

STABILITY: unstable: stable: X

INCOMPATIBILITY (materials to avoid): N/Ap

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/Ap

HAZARDOUS POLYMERIZATION: may occur: will not occur: X

CONDITIONS TO AVOID: Temperature over 350°F

SECTION VI - HEALTH HAZARD DATA**DURATOP Component B**

POTENTIAL EFFECTS OF EXPOSURE (listed by primary routes of entry)

INHALATION: Inhalation of vapor can cause headache, nausea, and may irritate nose, throat and lungs. Monomer vapors may be generated if product is heated during processing.

SKIN: Prolonged or repeated contact may irritate human skin. In skin studies (rabbit) of similar acrylic emulsions, rated as practically non-irritating.

INGESTION: A single does of DURATOP VOH A is practically non-toxic by ingestion. This product is approved for incorporation into coatings in contact with potable water.

EYE CONTACT: Direct contact with emulsion may irritate eyes.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove person to fresh air. If cough or respiratory symptoms persist, consult a physician.

SKIN: If irritation persists, contact physician. Wash clothing and decontaminate footwear before reuse.

INGESTION: Give one to two glasses of water to drink and refer to medical personnel. Never give anything by mouth to an unconscious person.

EYE CONTACT: Flood eyes with copious amounts of water for at least 15 minutes. Contact physician if redness or irritation persists.

CARCINOGENICITY OSHA: NO NTP: NO IARC: No

HMIS RATING: HEALTH – 0, FLAMMABILITY – 0, REACTIVITY -- 0

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep people away. Floor may be slippery. Dike and contain spill with inert material. Transfer liquid to recovery or disposal. Keep spills and run offs out of municipal sewer and open bodies of water.

WASTE DISPOSAL METHOD: Coagulate the emulsion by the step wise addition of ferric chloric and lime. Remove the supernatant liquid and flush to chemical sewer. Landfill or incinerate the solids and the contaminated diking material according to local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Keep from freezing, product may coagulate. Store 34°F - 140°F.

OTHER PRECAUTIONS: Monomer vapors can evolve where product is heated. Use local exhaust ventilation with a minimum capture velocity of 100 ft./min. at evolution point.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: None required with good ventilation. If needed, use OSHA/NIOSH approved.

VENTILATION LOCAL EXHAUST: Ventilation at point of contaminant release.

PROTECTIVE GLOVES: Impervious **EYE PROTECTION:** Chemical splash goggles (ANSI Z 87.1)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

END OF MSDS