

MATERIAL SAFETY DATA SHEET

*****THIS PRODUCT IS NOT CONTROLLED BY WHMIS*****

SECTION I - PRODUCT IDENTIFICATION

Product identifier: Durex EMC (Elastomeric Coating)

Chemical name: Water based acrylic emulsion

Product use: Special finish coatings

Supplier name and address: Information	Hazard Rating	HMIS Rating
	4 - EXTREME	HEALTH - 0
Durabond Products Limited	3 - HIGH	FLAMMABILITY - 0
55 Underwriters Road	2 - MODERATE	REACTIVITY - 0
Scarborough, Ontario	1 - SLIGHT	SPECIAL - 0
M1R 3B4	0 - MINIMUM	

Emergency Telephone #: (613) 996-6666 (CANUTEC)

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u> <u>rat)</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>LC₅₀, ppm</u> <u>(inhalation, rat)</u>	<u>LD₅₀, mg/kg</u> <u>(Oral,</u>
Calcium carbonate	1317-65-3	40-70	N/Av	6450
Silica(quartz)	14808-60-7	15-40	N/Av	N/Av
Acrylic Emulsion	N/Av	15-40	N/Av	N/Av

SECTION III - PHYSICAL DATA

Physical state, odour and appearance: Odourless liquid emulsion containing solid particles; can be coloured

Odour threshold: N/Av

Specific gravity (at 25°C): 1.875

Coefficient or water/oil distribution: N/Av

Vapour pressure (mm Hg @ 20°C): N/Av

Boiling point: N/Av

Freezing point: N/Av

pH: N/Av

Vapour density (Air=1.0): N/Av

Evaporation rate (ether=1.0): N/Av
VOC(grams/litre): 89.18 g/L
Solubility in water (w/w): Incompletely soluble; forms an emulsion

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Product is not flammable, and will not burn under normal conditions.
Means of extinction: If a fire occurs around this product, use whatever means of extinction are appropriate to the type of fire.
Sensitivity to mechanical impact/static discharge: Not susceptible to static discharge or static discharge.
Flash point (Method): None
Lower/upper flammable limits (% by volume): N/Av
Auto-ignition temperature: N/Av
Hazardous combustion products: None

SECTION V - REACTIVITY DATA

Stability: Stable. Hazardous polymerization will not occur.
Incompatible materials: None known.
Conditions of reactivity: Dry film will decompose at temperature above 300°C
Hazardous decomposition products: Decomposition will release gases such as carbon dioxide.

SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of exposure and acute/chronic effects

Primary routes of entry: Skin contact, eye contact, ingestion
Exposure limits: ACGIH-TLV-TWA: 10 mg/m₃ (total dust) for nuisance particulates such as calcium carbonat; 0.1 mg/m₃ for silica (quartz)(respirable dust).
Inhalation: Inhalation fo mists or spray may cause coughing or sneezing, mild respiratory irritation.
Skin and eyes: Abrasiveness of filler material may cause eye and skin irritation.
Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, with nausea and possible vomiting.
Chronic effects: Prolonged or repeated skin contact may cause drying or cracking of the skin.
Carcinogenicity: **IARC** found limited evidence in humans and sufficient evidence in animals that inhalation of silica dust could contribute to lung cancer. These effects seem to

associated in humans with silicosis. Avoid grinding or sanding dry product without respiratory protection.

Teratogenicity, mutagenicity, other reproductive effects: None known.

Sensitization to material: Product is not known to cause allergies.

Synergistic materials: None known.

SECTION VII - FIRST AID

Inhalation: Remove victim to fresh air. If breathing difficulty does not improve rapidly, get patient to a doctor.

Skin: Wash skin with mild soap and water. Rinse thoroughly. See a doctor if irritation persists.

Eyes: Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention immediately.

Ingestion: If a large amount is ingested, and if patient is conscious, drink plenty of water, then induce vomiting. Get medical attention. Never give anything by mouth if patient is unconscious

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: Scoop up material or absorb with rags, sand or vermiculite. Place in containers for disposal.

Waste disposal: Consult federal, provincial and local for allowed means of disposal.

PROTECTIVE EQUIPMENT

Respiratory protection: Not required under normal handling procedures.

Engineering controls: Local ventilation should be used.

Protective gloves: Gloves or protective clothing are usually not necessary but may be desirable in specific work situations.

Eye protection: Eye protection such as dust-tight goggles should be worn if desired.

Other protective equipment: Not normally needed.

STORAGE AND HANDLING

Handling procedures and equipment: No special precautions are needed. The material is chemically inert. The product should not be allowed to freeze or dehydrate prior to application.

Storage requirements: Store in a cool, dry area.

Special shipping instructions: Not regulated according to TDG.

SECTION IX - PREPARATION INFORMATION

Prepared by: Durabond Products Limited
Preparation date: April 2011
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Additional notes or references:

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists
HMIS: Hazardous Material Identification System
IARC: International Agency for Research on Cancer
N/Ap: Not applicable
N/Av: Not available
NIOSH: National Institute for Occupational Safety and Health
IARC: International Agency for Research on Cancer
TLV: Threshold Limit Value
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Information System

References:

1. Van Nostrand Reinhold, Dangerous Properties of Industrial Materials, Seventh Edition, N. Irving Sax.
2. Canadian Centre for Occupational Health and Safety. RTECS (Registry of Toxic Effects) and CHEMINFO databases.
3. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1989-90.
4. International Agency for Research on Cancer Monographs, Supplement 7, 1988.