

MURALO

The Muralo Company, Inc.

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HEALTH EMERGENCY 201-437-0770 SPILL EMERGENCY 201-437-0770

Fax No 201-437-2316

04-Oct-05

MATERIAL SAFETY DATA SHEET

HMIS HAZARD CLASSIFICATION

Toxicity:1 Flammable: 0 Reactivity: 0 Personal protection B

Scale Low : 1 Moderate : 2 High : 3 Extreme : 4

PRODUCT IDENTIFICATION

Product No M57XX and M5780 combined

Product Name: MURALO WATERBORNE EPOXY PART A AND PART B RATIO BY VOL 4 TO 1

COMPONENT INFORMATION

PART A

PART B

CHEMICAL NAME	CAS #	CHEMICAL NAME	CAS #
ALIPHATIC AMINE AQUEOUS SOLUTION	NA	ETHYLENE GLYCOL MONOBUTYL ETH	111-76-2
KAOLIN CLAY	1332-58-7	WATER	7732-18-5
Nepheline Syenite	37244-96-5	WATER DISPERSIBLE EPOXY RESIN	25068-38-6
TITANIUM DIOXIDE	13463-67-7		
WATER	7732-18-5		
VOC	215.00	VOC	49.80

HAZARDOUS COMPONENTS & EXPOSURE INFORMATION

CHEMICAL NAME	CAS #	TLV	PEL	SARA 313	PERCENT
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	-	-	Listed	Appr. 3 %

PHYSICAL DATA

PART A

PART B

BOILING RANGE	212	F.	212	F.
WEIGHT/GAL	11.27	lbs	9.18	lbs
VOLATILE ORGANIC CONTENTS...	1.80	lbs/gal	0.41	lbs/gal
VOC...	215.00	gms/ltr	49.8	gms/ltr

COMBINED VOC AFTER MIXING PART A +B 165.9 gms/ltr or 1.39 lbs/gal

EVAPORATION RATE Slower than ether Vapor Density NA

FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION : OSHA

FLASH POINT:

U.S.DOT Hazard Class: NOT REGULATED

EXTINGUISHING MEDIA : NOT APPLICABLE

HEALTH EFFECTS OF OVER EXPOSURE AND FIRST AID

Primary Routes	Symptoms	First Aid
Eye	May cause burning and irritation upon direct contact.	Flush with water. Seek medical attention
Skin	Direct skin contact may cause skin irritation and dermatitis.	Wash with soap and water.
Ingestion	Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, numbness and headache followed by weakness & nausea.	Do not induce vomiting. Seek medical attention.
Inhalation	Acute overexposure in mist form may result in irritation of throat & lungs.	Remove person to fresh air. Apply artificial respiration.

Health Effects

Subchronic (target organ effects.)

Chronic target effects.

No effects known

No effects known

CARCINOGENICITY

NTP

OSHA

IARC

NO

NO

NO

REACTIVITY INFORMATION

STABILITY

STABLE

Avoid open flames. Strong oxidizing agents.

Hazardous polymerization will not occur

Decomposition Products.

Carbon dioxide. Carbon monoxide. Soot smoke/vinyl/acrylic monomers.

Spill & leak

Procedure

Collect large spills with shovel or pump and move to other leakproof containers

Spread sand over spill areas. Clean with detergent solution. In case of spills or leak, remove all ignition sources, absorb with absorbent. Sweep or scoop up. Ventilate.

Personal Protection and Exposure Control

Eye:

Wear goggles to avoid splash.

Skin:

Use protective gloves.

Inhalation:

Use mask while spraying. Avoid inhalation.

Engineering Controls:

Sufficient ventilation to keep within OSHA PEL/ TLV limit.

The dried film of the product may contain all or some of the following OSHA chemicals

And may become a dust nuisance when removed by sanding or grinding.

OSHA recommends a PEL/TWA of 15 mg/m3 for the respirable fraction. ACGIH

recommends TLV/TWA of 10 mg/m3 for total dust. Use approved mask, eye goggles

and gloves while sanding, or grinding. Skin absorption may contribute to the overall

exposure of the material.

OCCUPATIONAL EXPOSURE LIMITS.

Chemical Name	(OSHA)			
	PEL/TWA	PEL/Ceiling	PEL/Stel	Skin
Titanium Dioxide	15 mg/m3	N/E	N/E	N/E
Calcium Carbonate	15 mg/m3	N/E	N/E	N/E
Quartz(Dust)	1 mg/m3	N/E	N/E	N/E
Silicate	15 mg/m3	N/E	N/E	N/E
Inert nuisance Dust	5 mg/m3	N/E	N/E	N/E
Total Dust	15 mg/m3	N/E	N/E	N/E
Carbon Black	3.5 mg/m3	N/E	N/E	N/E

STORAGE AND DISPOSAL

Precautions

Keep away from heat and open flames. Keep from freezing. Use with adequate ventilation. Dispose waste by sanitary landfill or incineration in accordance with appropriate regulations.

This product is not a Hazardous chemical under 29 CFR 1910-1200 and therefore not covered.

Regulatory Information

Emergency Planning & community RTK (SARA 313)

Sect 313 Info;(40 CFR 372)

Chemicals listed in section 313 with concentration over de minimis levels when present are shown on page 1 of this MSDS.

Clean water act:

This product may be regulated as an oil under section 311. Discharges to navigable water-ways resulting in a visible surface sheen are prohibited and must be reported.

EPA RCRA (40 CFR 110) Information:

This product is not included in the list of hazardous substances nor does it exhibit the characteristics of Haz.waste. When a decision is made to discard this material as supplied, it does not meet RCRA characteristics definition of ignitability, corrosivity or reactivity and it is not listed in 40 CFR 261.33. The toxicity (TC) however, has not been evaluated by Toxicity Characteristic Leaching Procedure. (TCLP).

State Right to Know:

COMPONENT INFORMATION SECTION of this MSDS provides necessary data as required under the provisions of State Right to Know Act.

EPA TSCA

EPA-SARA

Title III

All components of this product are listed or are exempt from this listing on the TSCA chemical substances.

This product contains no toxic chemical at a level, which is reportable under Sec 313

(40 CFR 37 under SARA Toxic Chemical Release Reporting Regulation)