

# MATERIAL SAFETY DATA SHEET

MASTER BUILDERS, INC.  
23700 CHAGRIN BLVD.  
CLEVELAND, OHIO 44122  
216-831-5500

MASTER BUILDERS  
TECHNOLOGIES, LTD.  
1800 CLARK BOULEVARD  
BRAMPTON, ONTARIO L6T 4M7  
905-792-2012

24 HOUR CONTACT  
CHEMTREC  
800-424-9300  
D.C. AREA 483-7616

Prepared by: Department of Environment, Health & Safety  
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Control No. 1003291

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard.

All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

1. **PRODUCT NAME:** MBT FORM-COTE

Chemical Family: Polyurethane and hydrocarbon mixture.

2. <b>HAZARDOUS INGREDIENTS:</b>	CASNO	EXPOSURE LIMITS*		PEL	CONTENT
		TLV	STEL		
Xylene	1330-20-7	100 ppm	150 ppm	100 ppm	ca. 45%
Ethyl Benzene	100-41-4	100 ppm	125 ppm	100 ppm	ca. 10%
2-Ethoxyethyl Acetate	111-15-9	5 ppm	None	5 ppm	ca. 5%
Toluene-2,4-Diisocyanate (TDI)	584-84-9	0.005 ppm	0.02 ppm	0.005 ppm	< 0.1%

(\*) Refer to Section 7 for available LD/LC (50) Health Hazard Data.

3. **PHYSICAL DATA:**

Boiling Point (°C):	(Xylene)	138	Water/Oil Distribution	
Percent Volatile:		ca. 60	Coefficient:	N/Av
Freezing Point (°C):		N/Av	Solubility in Water:	None
Vapor Pressure mmHg @20 (°C):	(Xylene)	9	Specific Gravity:	1.0
Vapor Density:		> Air	pH:	N/Av
Odor Threshold: (ppm)		N/Av	Evaporation Rate:	N/Av
Appearance: Clear amber liquid			Odor: Aromatic	
N/Av = Not Available				

N/Av = Not Applicable

ca. = Approximate

4. **FIRE AND EXPLOSION HAZARD DATA:** HMIS Hazard Rating No. 3 (Serious)

Flash Point: 27 °C (80 °F)

Method: Pensky-Marten C.C.

Auto-Ignition Temperature: 528 °C 982 °F (Xylene)

Limits of Flammability: LEL: 1.0 % (Xylene) UEL: 7.0% (Xylene)

Extinguishing Media: Carbon dioxide, foam, dry chemical & water fog.

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## 4. FIRE AND EXPLOSION HAZARD DATA: (cont'd)

**Special Fire & Unusual Hazards:** At higher temperature vapors can cause pressure build up in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Vapors heavier than air can concentrate, travel to source of ignitions, and flash back. Residue in container can ignite explosively. Electrical grounding is recommended when transferring material in containers 1 gallon (4 liters) or larger.

## 5. REACTIVITY DATA: HMIS Hazard Rating No. 1 (Slight)

**Stability:** Avoid contact with moisture reacts evolving CO(2). Avoid temperatures above recommended storage. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.

**Incompatibility:** Strong acids, bases, amines, mercaptans and peroxides may initiate polymerization possibly hazariously. Avoid sources of ignition.

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen; TDI, hydrogen cyanide and various unknown hydrocarbons from incomplete combustion. Avoid sources of ignition.

**Hazardous Polymerization:** Will not occur when handled per instructions.

## 6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

**Action To Take For Spills/Leaks:** Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage clean up residue with absorbent material. Wash down area with dilute ammonium hydroxide or detergent solution, allow 10 minutes to react. Do not immediately seal container. Remove collected material to safe, well-ventilated or outdoor area.

**Waste Disposal Method:** Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in accordance with local, state, province and federal regulation. Incineration at agency approved waste-disposal facilities.

## 7. HEALTH HAZARD DATA: HMIS Hazard Rating No. 3 (Serious)

**PRIMARY ROUTE OF ENTRY:** Inhalation, Dermal, Eyes, Ingestion

### Effects Of Overexposure

#### Inhalation:

May cause irritation to mucous membranes and upper respiratory system. Possible kidney and liver damage, narcosis, CNS depression. High exposures may result in narcotic effect, headaches and possible unconsciousness.

LC Lo	Inhal.	CASRN	100-41-4	4000	ppm	4Hr. Rat.
LC (50)	Inhal.		111-15-9	12.1	gm/m3	8Hr. Rat.
			584-84-9	14	ppm	4Hr. Rat.
			1330-20-7	5000	ppm	4Hr. Rat.

#### Eyes:

May cause severe irritation, tearing and blurred vision.

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## 7. HEALTH HAZARD DATA: (cont'd)

### Effects Of Overexposure (cont'd)

#### Skin Contact:

Prolonged or repeated skin contact tends to remove skin oils possibly leading to irritation and dermatitis. Skin sensitization or allergic reaction may occur in some individuals.

#### Skin Absorption: toxicity.

Not expected to be absorbed through skin in sufficient quantity to increase overall

#### LD (50) Dermal

CASRN	100-41-4	17.8	gm/kg	Rabbit.
	111-15-9	10.5	gm/kg	Rabbit.

#### Ingestion:

Harmful or fatal if swallowed; contains petroleum distillates. Intake may cause gastrointestinal irritation nausea, vomiting, diarrhea, headache and drowsiness.

#### LD (50) Oral

CASRN	100-41-4	3500	gm/kg	Rat.
	111-15-9	2900	mg/kg	Rat.
	584-84-9	5800	mg/kg	Rat.
	1330-20-7	4300	mg/kg	Rat.

#### Chronic:

Ethyl Benzene (100-41-4): Listed by IARC as a Group 2B Carcinogen. "Possibly Carcinogenic to humans".

Ethyl Benzene (100-41-4): Has been reported as a human mutagen; experimental teratogen; experimental reproductive effects.

Xylene (1330-20-7): Long term exposure to high concentrations of vapors may result in central nervous system depression. Xylene overexposure to laboratory animals has resulted in liver and kidney damage.

## 8. FIRST AID:

#### Inhalation:

Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek medical attention.

#### Eyes:

Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

#### Skin:

Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

#### Ingestion:

Do NOT induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

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## 9. SPECIAL PROTECTION INFORMATION:

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do **NOT** wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and Nitrile gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV or TWA limits; use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard.

Confined spaces, rooms, or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

## 10. ADDITIONAL INFORMATION:

Average Shelf Life:

Refer to Product Data Sheet.

Special Instructions:

Store in cool, dry place.

## REGULATORY INFORMATION:

Title III Section 302:

CASRN	100-41-4	RQ:	1000	LB.
	584-84-9		100	LB.
	1330-20-7		100	LB.

Title III Section 311/312:

Health hazard: Immediate  
Delayed  
Physical hazard: Fire

Title III Section 313:

CASRN	100-41-4	<	10%
	111-15-9	<	5%
	1320-20-7	<	45%

State: California

This product contains a chemical known to the state of California to cause cancer.

Ethyl Benzene	100-41-4	<	10 %
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This product contains a chemical known to the state of to cause birth defects or other reproductive harm.

Ethyl Benzene	100-41-4	<	10 %
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WHMIS Classification:

Class B, Div. 2  
Class D, Div. 2, Sub A  
Class D, Div. 2, Sub B

Canadian Domestic Substance List:

All chemicals are listed.

**MBT FORM-COTE**

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10. **ADDITIONAL INFORMATION:** (cont'd)

**TRANSPORTATION**

National Motor Freight Classification (NMFC): 46030 Sub: - Class: 55

Description: **REGULATED - USE DOT PROPER SHIPPING NAME**

Emergency Response Guide Page No.: 127

DOT Reportable Quantity: >220 LB. (100 KG) (XYLENE)

Proper Shipping Name: **RESIN SOLUTION**

UNNO: UN 1866

Label: **FLAMMABLE**

Class: 3

Sub-Label: **NONE**

Package Group: **III**

Marine Pollutant: **NL**

P = Moderate

NL = Not Listed

PP = Severe

ND = Not Determined

WS = Water Sheen

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