

Issue Date: 10/02/14

Version: 1.3

Revision Date: 05/06/15

Trade Name: 48 Epoxy Accelerator

**1 Identification**
**1.1 Product Identifier:**
**Product Name:** Epoxy Accelerator 48

**1.2 Application of the substance / the preparation:**

Epoxy Accelerator 48 for use with 4800 Series Epoxy

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

Versatile Building Products

245 Carl Karcher Way

Anaheim, Ca 92801

U.S.A.

**Information department**

Health and Safety (8 AM to 5 PM-PST) 1-714-829-2600

MSDS@garagecoatings.com

**1.4 Emergency telephone number:**

 Infotrac: (800) 535-5053 (North America)  
 (352) 323-3500 (International)

**2 Hazard(s) identification**
**2.1 Classification of the substance or mixture**
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute Toxicity – Oral	Category 4
Skin Corrosion	Category 1B
Serious Eye Damage	Category 1
Skin Sensitization	Category 1
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity – Single Exposure	Category 3

**2.2 GHS Label Elements, including precautionary statements**

**Pictogram**
**Signal Word**

Danger

**Appearance:** Clear Viscous Liquid

**Physical State:** Liquid

**Odor:** Amine

**Hazard statements**

Harmful if swallowed.

Harmful in contact with skin.

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May cause an allergic skin reaction  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
May cause respiratory irritation  
Suspected of damaging fertility or the unborn

**Precautionary statement(s) - Prevention**

Keep container tightly closed.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Precautionary statement(s) - Response**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/ physician.  
Call a POISON CENTER or doctor/ physician if you feel unwell.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
Wash contaminated clothing before reuse.  
Collect spillage.

**Precautionary statement(s) - Storage**

Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

**Precautionary statement(s) - Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

Corrosive  
Components of the product may affect the nervous system

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Severe eye irritant  
 May cause sensitization by skin contact  
 Toxic by inhalation  
 Harmful if swallowed

### 3 Composition/information on ingredients

#### 3.1 Mixtures

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
<b>Trimethylhexamethylenediamine (TMD)</b> CAS: 25620-58-0	>25	<b>Acute Tox. 4;H302</b> <b>Eye Irrit. 2;H319</b> <b>Skin Irrit. 2;H315</b>	[1]
<b>Paratertiarybutylphenol</b> CAS: 98-54-4	<50	<b>Skin Corr. 1;H314</b>	[1]
<b>Benzene-1,3-Dimethaneamine (MXDA)</b> CAS: 1477-55-0	<30		[1]
<b>Nonyl Phenol</b> CAS: 84852-15-3	<5		[1]

[1] Substance classified with a health or environmental hazard

### 4 First-aid measures

#### 4.1 Description of first aid measures

<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minute holding the eyelids apart and seek medical attention.
<b>Skin</b>	Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep a rest. Do NOT induce vomiting. If conscious, give affected person milk or water to dilute ingested material. Get medical attention immediately.

#### 4.2 Most important symptoms/effects, acute and delayed:

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**Overview**

**Eyes:** Acute: Lacrimation, conjunctivitis, and corneal edema when absorbed through eye tissue. Blue halo, fog, or haze may appear around lights and is a transient effect.

**Skin Contact** Acute: Dryness, itching, and/or rash. Burns, necrosis, and/or permanent injury.

Chronic: Repeated or prolonged exposure may cause allergic reaction/sensitization.

**Skin Absorption** Acute: Nausea, headache, general discomfort.  
Chronic: ND

**Inhalation:** Acute: Irritation of the respiratory tract. Shortness of breath, tightness and pain in the chest. May cause scarring of the tract tissue.

Chronic: Dryness of nasal passages may result from long periods of inhalation.

**Ingestion** Acute: Causes damage to the mucous membranes if swallowed. Burns and necrosis of the tract.

Chronic: ND

See section 2 for further details.

**Eyes**

Causes serious eye damage.

**Skin**

Harmful in contact with skin. Causes severe skin burns and eye damage.

**Ingestion**

Harmful if swallowed.

**Treatment**

NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation

**5 Firefighting Measures****5.1 Extinguishing media****Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**6 Accidental release measures**

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### 6.1 Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8)

### 6.2 Environmental precautions

#### No data available

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3 Methods and material for containment and cleaning up

Avoid contact with material. Clear area of non-essential personnel. Personnel wearing appropriate protective equipment should stop spill at source, contain spill, and pump material to salvage tank. Residual liquid should be taken up with clay, diatomaceous earth or other absorbent and collected in disposal container.

## 7 Handling and storage

### 7.1 Precautions for safe handling

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store away from acids and oxidizers. Keep in cool, dry, ventilated storage area. Store in steel containers, preferably outdoors, above ground, with leak containment precautions in place.

Incompatible materials: Mineral acids, organic acids, oxidizing agents, and reactive metals.

Avoid contact with nitrous acid, nitrates, or high atmospheres of nitrous oxides as N-Nitrosamines (highly carcinogenic) may be formed.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8 Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

Benzene-1,3-dimethanamine (MXDA)	Ceiling Limit Value: ACGIH	0.1 mg/m <sup>3</sup>
Benzene-1,3-dimethanamine (MXDA)	Ceiling Limit Value and Time Period (If specified): NIOSH	0.1 mg/m <sup>3</sup>
Benzene-1,3-dimethanamine (MXDA)	Ceiling Limit Value: OSHA Z1A	0.1 mg/m <sup>3</sup>
Benzene-1,3-dimethanamine (MXDA)	Ceiling Limit Value: US CA OEL	0.1 mg/m <sup>3</sup>
Benzene-1,3-dimethanamine (MXDA)	Ceiling Limit Value: TN OEL	0.1 mg/m <sup>3</sup>

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**Overexposure Effects:** Irritation and burning of the eyes, skin, and respiratory tract.

**Conditions Aggravated by Exposure:** Allergic reaction, sensitization, chronic respiratory disease, skin disorders.

## 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

<b>9 Physical and Chemical Properties</b>
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<b>9.1 Information on basic physical and chemical properties</b>
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a) <b>Appearance</b>
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Form: Clear, viscous liquid
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	Colour: Amber
b) <b>Odour</b>	Fishy
c) <b>Odour Threshold</b>	No data available
d) <b>pH</b>	Alkaline
e) <b>Melting point/freezing point</b>	No data available
f) <b>Initial boiling point and boiling range</b>	230.00 °C
g) <b>Flash point</b>	>93.33 °C (CC)
h) <b>Evaporation rate</b>	no data available
i) <b>Flammability (solid/gas)</b>	no data available
j) <b>Upper/lower flammability or explosive limits</b>	no data available
k) <b>Vapour pressure (mm Hg at 21°C)</b>	<10.34
l) <b>Vapour density</b>	No Data Available
m) <b>Relative density</b>	0.99 g/cm <sup>3</sup> at 25°C (77°F)
n) <b>Water solubility</b>	<1.00%
o) <b>Partition coefficient: n-octanol/water</b>	no data available
p) <b>Auto-ignition temperature</b>	no data available
q) <b>Decomposition temperature</b>	no data available
r) <b>Viscosity</b>	250-500 CPS at 25°C (77°F)
s) <b>Explosive properties</b>	no data available
t) <b>Oxidizing properties</b>	no data available
u) <b>VOC, g/L</b>	0 g/L

## 9.2 Other safety information

No data available

<b>10 Stability and reactivity</b>
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### 10.1 Control parameters

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Mineral acids, organic acids, oxidizing agents, and reactive metals. Avoid contact with nitrous acid, nitrates, or high atmospheres of nitrous oxides as N-Nitrosamines (highly carcinogenic) may be formed. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acids, nitrates or atmospheres with high nitrous oxide concentrations.

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**Hazardous decomposition products**

Ammonia when heated. Niroamines, aldehydes. From combustion: Nitric acid, NOx, Carbon monoxide

**11 Toxicological Information**
**11.1 Information on toxicological effects**
**Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/kg	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
2,4,6-Tris(dimethylaminomethyl)phenol - (90-72-2)	1,200.00 Rat- Category 4	1,280, Rat- Category 4	No data available	No data available	No data available
Bis[(dimethylamino)methyl]phenol - (71074-89-0)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed
Acute toxicity (dermal)	4	Harmful in contact with skin
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation	1	Causes severe skin burns and eye damage
Serious eye damage/irritation	1	Causes serious eye damage
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable



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**12 Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13 Disposal considerations****13.1 Waste treatment methods****Product**

The product should not be allowed to enter drains, water courses, or the soil; dispose of this material and its container in a safe way. Contact supplier if guidance is required.

**Contaminated packaging**

Dispose of container and unused contents in accordance with federal, state, and local requirements.

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**14 Transport information**

The shipping classification in this section is for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO/IMDG (Ocean Transport)</b>	<b>ICAO/IATA</b>
<b>UN Number</b>	UN2735	UN2735	UN2735
<b>UN Proper Shipping Name</b>	UN2735, Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s., (Benzene-1,3-dimethyaneamine (MXDA), Trimethylhexane-1,6-diamine)	UN2735, Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s., (Benzene-1,3-dimethyaneamine (MXDA), Trimethylhexane-1,6-diamine)	UN2735, Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s., (Benzene-1,3-dimethyaneamine (MXDA), Trimethylhexane-1,6-diamine)
<b>Transport Hazard Class(es)</b>	<b>DOT Hazard Class: 8</b> <b>DOT Label: 8</b>	<b>IMDG: 8 Sub Class: Not Applicable</b>	<b>Air Class: 8</b>
<b>Packing Group</b>	II	II	II

**U.S. Hazmat and/or International DG shipment Exception**

The supplier may apply one of the following exceptions: Combustible liquid, Consumer Commodity, **Limited Quantity**, Viscous Liquid, Does not sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations

**Environmental hazards**

IMDG: Marine Pollutant: Yes

**Special precautions for user**

No further information

**Transport in bulk according to Annex II of Marpol73/78 and the IBC Code**

Not Applicable

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**15 Regulatory information****United States Regulatory Information****TSCA 8 (b) Inventory Status**

All Components are listed or exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification**

None above reporting de minimus

**EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification**

Acute Health Hazard

**EPA SARA Title III Section 313 (40 CFR 372) Component(s) above the "de minimus" level**

None

**California Prop. 65 Components**

This product may contain chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Canada Regulatory Information****CEPA DSL/NDSL Status:**

All components are listed on or are exempt from listing on the Domestic Substances List.

**16 Other information**

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**HMIS Rating**

Health Hazard: 3

Flammability: 1

Physical Hazard: 0

**NFPA Rating**

Health Hazard: 3

Fire Hazard: 1

Reactivity Hazard: 0

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