

## Material Safety Data Sheet

Revision Date: 08/12      Print Date: 08/21/12  
Version 2.0      MSDS Identification: 3100CR - Veil Coat - Part B      Epoxy Curing Agent

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 3100CR - Veil Coat - Part B

Product Use Description : Epoxy Curing Agent

Company : Protective Floorings and Linings  
A Division of Milamar Coatings, LLC  
311 N.W. 122nd St, Suite 100  
Oklahoma City, OK 73114

Telephone : 405-755-8448

Emergency Telephone Number: ChemTel 800-255-3924 or 813-248-0585 (International)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Formaldehyde, polymer with benzeneamine, hydrogenated	135108-88-2	< 50%
Benzyl Alcohol	100-51-6	> 45%
Methylenebiscyclohexanamine, 4,4'-	1761-71-3	< 5%
Paratertiarybutylphenol	98-54-4	3% - 7%

Chemical Family: Cycloaliphatic Amine

### 3. HAZARDS INFORMATION

#### Emergency Overview

Keep away from heat and sources of ignition.  
Mild Skin Irritant.  
Harmful If Swallowed.

#### Potential Health Effects

Skin Contact : Mild Skin Irritation.

Ingestion : Harmful If Swallowed.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

#### Exposure Guidelines

Target Organs : Eyes  
Skin

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Aggravated Medical Condition : None Known.

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## 4. FIRST AID MEASURES

General Advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be initiated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye Contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin Contact : Wash off immediately with plenty of water for at least 20 minutes. Wash off with soap and water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

Ingestion : Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : Move to fresh air.

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## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Alcohol-resistant foam.  
Carbon Dioxide (CO<sub>2</sub>).  
Dry Chemical.  
Dry Sand.  
Limestone Powder.

Specific Hazards : May generate ammonia gas. May generate toxic nitrogen oxide gases. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Special Protective Equipment For Fire Fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye / face protection. Evacuate personnel to safe areas.

Environmental Precautions : Construct a dike to prevent spreading.

Methods For Clean-Up : Contact Protective Floorings and Linings for advice. Place in appropriate chemical waste container.

Additional Advice : If possible, stop flow of product.

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## 7. HANDLING AND STORAGE

Handling	:	Do not use sodium nitrite or nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage	:	Keep away from alkalis. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.
Technical Measures / Precautions	:	Do not store in reactive metal containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	:	Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation, adequate to ensure concentrations are kept below exposure limits.
Personal Protective Equipment		
Respiratory Protection	:	Not required for properly ventilated areas.
Hand Protection	:	Neoprene gloves. Butyl-rubber gloves. Nitrile Rubber. Impervious Gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
Eye Protection	:	Chemical Safety Glasses.
Skin And Body Protection	:	Long sleeve shirts and trousers without cuffs.
Special Instructions For Protection And Hygiene	:	Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid.
Color	:	Amber.
Odor	:	Ammoniacal.
Relative Density	:	1.06 (water = 1).
Vapor Pressure	:	0.70 mmHg.
Density	:	66.174 lb/ft <sup>3</sup> (1.06 g/cm <sup>3</sup> ) at 70 degrees F (21 degrees C)

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pH : Alkaline

Boiling Point / Range : 432 degrees F (222 degrees C)

Flash Point : 219 degrees F (103.89 degrees C).

## 10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Materials To Avoid : CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmosphere with high nitrous oxide concentrations.  
Nitrous Acid and other nitrosating agents.  
Organic acids (I.e. acetic acid, citric acid etc).  
Mineral Acids  
Amines.  
Incompatible with bases.  
Reducing agents.  
Reactive metals (e.g. sodium, calcium, zinc etc.).  
Materials reactive with hydroxyl compounds.  
Oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion : LD 50: 1,200 mg/kg  
Species: Rat

Inhalation : No data is available on the product itself.

Skin : No data is available on the product itself.

Acute Dermal Irritation / Corrosion : Mild skin irritation.

Chronic Health Hazard : A component has been shown to cause reproductive / teratogenic effects in laboratory animals. Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28-day) oral study at doses ranging from 15 o 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain increased liver, kidney, and adrenal weights and histological changes in the liver, kidney, and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

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Aquatic Toxicity : No data is available on the product itself.

Toxicity To Fish - Components

Benzyl Alcohol : LC50(96 h):10mg/l Species: Bluegill sunfish (Iepomis macrochirus).

Benzyl Alcohol : LC50(96 h):460mg/l Species: Fathead minnow (Pimephales promelas)

Methylenebiscyclohexanamine, 4,4'- : LC50 (96 h) : 46 - 100 mg/l: Species : Golden orfe (Leuciscus idus).

Toxicity to daphnia - Components

Methylenebiscyclohexanamine, 4,4'- : EC50 (48 h) : 6.84 mg/l Species : Daphnia Magna.

Toxicity To Algae - Components

Benzyl Alcohol : IC50(72 h):700mg/l Species: Algae

Methylenebiscyclohexanamine, 4,4'- : EC50 (72 h) : 140 - 2000 mg/l Species : Algae

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

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

## 14. TRANSPORT INFORMATION

CFR : not regulated

IATA : not regulated

IMDG : not regulated

CTC : not regulated

## 15. REGULATORY INFORMATION

OSHA Hazard Communication Standard : Corrosive. Sensitizer.

(29 CFR 1910.1200) Hazard Class(es)

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory
Australia	AICS	Included on Inventory
Japan	ENCS	Included on Inventory
South Korea	ECL	Included on Inventory
China	SEPA	Included on Inventory
Philippines	PICCS	Included on Inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard Communication: Acute Health Hazard Chronic Health Hazard:

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Acute Health Hazard  
Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):  
This product does not contain any chemical known to the State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification: Toxic Material Causing Other Toxic Effects.

WHMIS Trade Secret Registry Number(s): 5017 Filing Date 03/13/2001.

## 16. OTHER INFORMATION

HMIS Rating

Health	:	2
Flammability	:	1
Physical Hazard	:	0

Prepared By : Protective Floorings and Linings. EH&S Product Safety Department