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Version 2.0 MSDS Identification: 3100CR - Part A Novolac Epoxy Resin

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 3100CR - Part A

Product Use Description : Novolac Epoxy Resin

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)
Epoxy Phenol Novolac Resin	28064-14-4	100%

3. HAZARDS INFORMATION

Emergency Overview

Yellow liquid. Aromatic odor.

May cause allergic skin reaction.

May cause eye irritation.

Potential Health Effects

Eye : May cause slight eye irritation. Corneal injury is unlikely.

Skin : Prolonged or repeated exposure may cause moderate skin irritation. May cause

more severe response if skin is abraded (scratched or cut). Has caused allergic skin reactions when tested in guinea pigs. Prolonged skin contact is unlikely to result in

absorption of harmful amounts.

Ingestion : Low toxicity if swallowed. Small amounts swallowed incidental to normal handling

operations are not likely to cause injury; however, swallowing larger amounts may

cause injury.

Inhalation : At room temperature, exposure to vapor is minimal due to low volatility; vapor from

heated material may cause respiratory irritation.

Systemic Effects : No relevant information found.

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Cancer Information

No relevant information found.

Teratology (Birth Defects)

No relevant information found.

Reproductive Effects

No relevant information found.

4. FIRST AID MEASURES

Eyes

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur,

consult a physician, preferably an ophthalmologist.

Skin Contact Wash skin with plenty of water. Items which cannot be decontaminated, including

leather articles such as shoes, belts, and watch bands should be disposed of properly.

Ingestion If swallowed, seek medical attention. Do not induce vomiting unless directed to do so

by medical personnel.

Inhalation Move person to fresh air; if effects occur, consult a physician.

NOTES TO PHYSICIAN Consider additional thorough skin wash with mild non-abrasive soap and plenty of

> warm water for at least 15 minutes. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point 495 degrees F Method Used **PMCC Auto Ignition Temperature** Not applicable

Flammability Limits

LFL Not applicable UFL Not applicable

Hazardous Combustion Products During a fire, smoke may contain the original material in addition to combustion

> products of varying composition which may be toxic and / or irritating. Combustion products may include and are not limited to : phenolic compounds, carbon monoxide,

and carbon dioxide.

Other Flammability Information Container may rupture from gas generation in a fire situation. Violent steam

> generation or eruption may occur upon application of direct water stream to hol liquids. Dense smoke is emitted when burned without sufficient oxygen.

Extinguishing Media Water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire

> extinguishers and foam. Do not use direct water steam. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog,

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applied gently may be used as a blanket for fire extinguishment.

Fire Fighting Instructions : Keep people away. Isolate fire area and deny unnecessary entry. Use water spray

to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distances. Consider use of unmanned hose holder or monitor nozzles. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied

gently, may be used as a blanket for fire extinguishment.

Protective Equipment For Fire Fighters : Wear positive pressure self-contained breathing apparatus (SCBA) and protective

fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or

safe distance.

6. ACCIDENTAL RELEASE MEASURES : (See Section 15 For Regulatory Information).

Protect People : Isolate area. Keep unnecessary and unprotected personnel from entering the area

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls / Personal Protection. Refer to Section 7, Handling, for additional

precautionary measures.

Protect The Environment : Prevent from entering the soil, ditches, sewers, waterways and / or groundwater.

See Section 12, Ecological Information.

Cleanup : Absorb with material such as sand. Collect in suitable and properly labeled

containers. Remove residual with soap and hot water. Solvents are not

recommended for clean up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent

MSDS for handling information and exposure guidelines.

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. See

Section 8, Exposure Controls / Personal Protection.

Storage : No specific requirements. Additional storage information o this product may be

obtained by calling your PF&L sales or customer service contact.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures : Good general ventilation should be sufficient for most conditions. Local exhaust

ventilation may be necessary for some operations.

Eye Protection : Use safety glasses.

Skin Protection : Remove contaminated clothing immediately, wash skin area with soap and water, and

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launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly. If hands are cut or scratched, use gloves chemically resistant to

this material for even brief exposures.

Respiratory Protection : For most conditions, no respiratory protection should be needed; however, if handling

at elevated temperatures without sufficient ventilation, use an approved air-purifying

respirator.

Exposure Limit(s) : None established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical State : Yellow Liquid

Odor : Aromatic

Vapor Pressure : Extremely low, not determined

Vapor Density : Not determined

Boiling Point : Decomposes

Solubility In Water : < 0.1 at 20 degrees C.

Specific Gravity : 1.19

Freezing Point : May Solidify < -15 degrees C.

10. STABILITY AND REACTIVITY

Chemical Stability : Thermally stable at typical use temperatures.

Conditions To Avoid : Avoid temperatures above 350 degrees C, 662 degrees F. Potentially violent

decomposition can occur above 350 degrees C, 662 degrees F. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can

be rapid.

Incompatibility With Other Materials : Avoid contact with oxidizing materials, acids, bases. Avoid unintended contact with

amines.

Hazardous Decomposition Products : Decomposition products depend upon temperature, air supply and the presence of

other materials. Gases are released during decomposition. Uncontrolled exothermic

reaction of epoxy resins release phenolics, carbon monoxide and water.

11. TOXICOLOGICAL INFORMATION

Skin : The dermal LD50 has not been determined

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Ingestion

: The oral LD 50 for rats is > 2000 mg/kg.

Mutagenicity:

No relevant information found.

12. ECOLOGICAL INFORMATION

Movement And Partitioning

Based largely or completely on information for diglycidyl ether of bisphenol A: Bioconcentration potential is moderate. Potential for mobility in soil is low.

Degradation And Persistence

Based largely or completely on information for diglycidyl ether of bisphenol A: after 28 days: 12%. Bases on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions

13. DISPOSAL CONSIDERATIONS

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State /

Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other

thermal destruction device.

14. TRANSPORT INFORMATION

CFR

Proper Shipping Name

not regulated

Class UN / ID No.

DIVIDIO.

Packing Group

15. REGULATORY INFORMATION

Chemical Name : Phenol-formaldehyde Polymer, Glycidyl Ether

Listed Inventories : On 40CFR710 Section 8b Chemical Substances Inventory and

Canadian Domestic Substances List.

EINECS Number: 500-006-8 Philippines PICCS Listed China SEPA Listed Japan MITI Listed Korea ECL Listed

Australia AICS Listed

SARA / TITLE III

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Section 311 / 312

Not Hazardous

Section 313 Listed Chemicals

None

CERCLA

Not subject to any special reporting requirements

WHMIS :

D2B

16. OTHER INFORMATION

The information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of the product. Consult PF&L, Inc. for further information.

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