

MSDS- Material Safety Data Sheet

Product Name: MF-E201 Hardener
MSDS No. : MF-E201 Hardener

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1. Basic Information:

Distributed by: Michigan Fiberglass Sales Inc
22900 E. Industrial Dr
St. Clair Shores, MI 48080
Emergency Phone 800 424-9300
Information Telephone Number: 586-777-2032

Health 3
Flammability 1
Reactivity 0
Pers. Protection G

2. Ingredients:

CAS No.	Chemical Name
NE	Propriety Amine Blend

3. Hazardous Identification:

Acute

Hazardous Identification Information:

THE HEALTH EFFECTS LISTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA COMMUNICATION STANDARD (29 CFR 1900.1200).

4. First Aid Measures:

Route(s) of Entry:

Skin possible

Health Hazards (Acute and Chronic):

Signs and Symptoms:

Redness or Swelling

Medical Conditions Generally Aggravated by Exposure:

Dermatitis

Emergency and First Aid Procedures:

Flush eyes for 15 minutes, contact physician, skin-wash with mild soap and water. Inhalation - move to fresh air. Ingestion - give several glasses of water, induce vomiting, contact physician.

5. Fire Fighting Measures:

Flash Point: N/A

Lower Exposure Limit: N/A

Upper Explosive Limit: N/A

F.P. Method:

Fire Extinguishing Media: Water spray, Dry Chemical, Foam, CO2

Special Fire Fighting Procedures:

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Self contained breathing apparatus

Unusual Fire Explosion: N/A**6. Accidental Release Measures:****Steps to be taken in case material is released or spilled:**

Soak up with absorbent material, or scrape up. Residual may be cleaned with steam or hot water.

7. Handling and Storage:**Precautions to be taken:**

Store at room temperature. Wear rubber gloves and eye protection.

Other precautions: N/A**8. Exposure Controls / personal Protection:****Ventilation Requirements:**

Use room ventilation

Personal Protective Equipment:

Rubber gloves, and glasses with side shields or goggles

9. Physical and Chemical Properties:

Boiling Point: >245C

Evaporation Rate (Butyl Acetate = 1): N/A

Specific Gravity (H₂O=1): 1.13000

Solubility in water: N/L

Melting Point: N/A

Vapor Pressure (mm Hg.): <20mmhg

Vapor Density (air = 1): N/A

Appearance and Odor: Amber liquid

10. Stability and Reactivity:**Stability:** Stable**Incompatibilities (materials to avoid):**

Strong Amines and oxidizing materials

Decomposition / By Products:

Carbon monoxide, carbon dioxide, and acid smoke

Hazardous Polymerization: may occur**11. Toxicological Information:****Skin:** Based on information for components, the LD50 for skin absorption in rabbits is expected to be > 2000 mg/kg.**Ingestion:** The oral LD50 for rats is 2000 mg/kg

Mutagenicity: In vivo mutagenicity tests for DGEBA - based resins have been negative vitro assays have given mixed results. Animal mutagenicity studies were negative

12. Ecological Information:

Movement and partitioning : bioconcentration potential is moderate (BCF between 100 and 300 or low Pog Pow between 3 and 5. potential for mobility in soil is low (Koc between 500 and 2000)

Degradation and persistence: biodegradation reached in modified Zhan-Wellens/EMPA test No 302B) after 28 days 12%

Ecotoxicology DGE BPA is moderately toxic to aquatic organisms on an acute basis (LC50/FC50) between 1 and 10 mg/l in most sensitive species

13. Disposal Considerations:

Disposal. Do not dump into any sewers, on the ground, or any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local regulations.

14. Transportation information:

This material is not DOT regulated

15. Regulatory Information:

SARA Hazard Code: Portions of this product have been reviewed according to the EPA "Hazard Categories" promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and are considered under applicable definitions, to meet the following categories:
An immediate health hazard

Toxic Substance Control Act (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSA inventory.

State Right to Know: This product is not known to contain any substances subject to the disclosure requirements of

New Jersey

Pennsylvania

OSHA Hazard Communication Standard

This substance is a "Hazard Chemical" as defined by the OSHA Hazard Communication Standard. 29 CFR 1910.1200