

Safety data sheet

FE 178-F B-RESIN

Revision date : 2006/09/15
Version: 1.1

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(30288739/MDS_GEN_US/EN)

1. Substance/preparation and company identification

| | |
|--|---|
| <u>Company</u> | <u>24 Hour Emergency Response Information</u> |
| BASF Polyurethane Foam Enterprises LLC | CHEMTREC: 1-800-424-9300 |
| 13630 Watertower Circle | Hotline: 1-800-888-3342 |
| Minneapolis, MN 55441 | |

Chemical family: resin
Synonyms: Urethane System Resin Component

2. Composition/information on ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u> |
|-------------------|----------------------|------------------------------|
| | < 75.0 % | Polyol |
| | < 12.0 % | Flame Retardant |
| | < 2.0 % | Surfactant |
| 108-01-0 | < 3.0 % | 2-dimethylaminoethanol |
| | < 3.0 % | Catalyst |
| 25265-71-8 | < 2.0 % | Dipropylene Glycol |
| 460-73-1 | < 10.0 % | 1,1,1,3,3-pentafluoropropane |
| 107-21-1 | 2.0 % | ETHYLENE GLYCOL |

3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
SENSITIZER.
MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA.
MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA.
CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
MAY ADVERSELY EFFECT THE DEVELOPING FETUS BASED ON ANIMAL DATA.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

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Information on: Fluorocarbons

At levels above the recommended exposure limit, the fluorocarbon acts as a weak narcotic. Acute overexposure causes tremors, confusion, irritation, suffocation, and may result in cardiac sensitization.

Information on: Dimethylaminoethanol

Dimethylaminoethanol is extremely irritating to the skin and eyes. Direct contact with the liquid is corrosive. Acute inhalation exposures at high concentrations have been known to produce respiratory difficulties, loss of coordination and decreased motor activity in rats.

Information on: Dipropylene glycol

Acute intravenous overexposures of dipropylene glycol were shown to produce CNS effects in dogs; however, this is not considered a relevant route of exposure. Prolonged overexposure to the skin may produce slight softening of the tissue.

Information on: Ethylene glycol

Acute inhalation overexposure to ethylene glycol may produce irritation to the nose, throat and upper respiratory tract. Acute ingestion overexposure is extremely harmful and may produce CNS effects, followed by depression, vomiting, drowsiness, coma, respiratory failure, convulsions and damage to the kidneys which may lead to death.

Irritation:

Irritating to respiratory system.

Information on: Polyol

Contact with the eyes and skin may result in irritation.

Information on: Dimethylaminoethanol

Contact with dimethylaminoethanol may result in severe irritation. Burns and permanent injury may result.

Information on: Ethylene glycol

Prolonged breathing of vapors or mists can cause respiratory irritation and may result in unconsciousness. Eye contact with the vapors may result in irritation. Eye contact with the liquid will result in temporary irritation. Prolonged skin contact with the liquid has a dehydrating effect resulting in a temporary irritation. Vapors have little or no effect on the skin.

Repeated dose toxicity:

Information on: Dimethylaminoethanol

Repeated skin contact with dimethylaminoethanol may result in sensitization. Repeated inhalation has been known to produce effects on the eyes and nasal mucosa as well as respiratory and olfactory lesions in experimental animals. Exposure to dimethylaminoethanol has been associated with visual and ocular changes and is reversible upon significantly reduced or ceased exposure.

Information on: Dipropylene glycol

Rats administered 10% DPG in the drinking water for 77 days exhibited slight liver and kidney effects. Those given 5% in the water were not affected. Significant inhalation exposures to DPG are considered unlikely unless the product is heated or aerosols are generated.

Information on: Ethylene glycol

Chronic overexposure to ethylene glycol may lead to liver degeneration and severe kidney damage. Animal studies indicate that ethylene glycol may be embryotoxic and teratogenic by the oral and inhalation routes. Ethylene glycol has been found to be noncarcinogenic in experimental animals.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. Immediate medical attention required.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

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If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

5. Fire-fighting measures

Flash point: > 200 °C (closed cup)
Autoignition: No data available.

Suitable extinguishing media:

water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and storage

Handling

General advice:

Product should not be mixed with air above atmospheric pressure for leak testing or any other purpose. Use dry nitrogen to transfer or leak test equipment pressurized with product.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Product that is frozen and/or tending to sedimentation can be liquified or homogenized by careful application of indirect heat (do not use flames or direct contact with a heat source). Protect from direct sunlight. Keep in a cool, well-ventilated place. Avoid extreme heat. Store protected against freezing. Stored and transported in a cylinder under pressure. Must not be repacked by the customer.

Storage stability:

Storage temperature: 70 - 80 °F

Protect against moisture. Store in unopened original containers in a cool and dry place.

8. Exposure controls and personal protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

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Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

General safety and hygiene measures:

Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Wash soiled clothing immediately.

9. Physical and chemical properties

| | | |
|-------------------------|--------------------|------------------|
| Form: | liquid | |
| Odour: | mild, amine-like | |
| Colour: | brown | |
| pH value: | >= 7 | |
| Bulk density: | 9.60 - 9.83 lb/USg | (25 °C) |
| Viscosity, dynamic: | 350 - 650 mPa.s | (23 °C) |
| Miscibility with water: | | slightly soluble |

10. Stability and reactivity

Conditions to avoid:

> 80 degrees Fahrenheit

Avoid moisture. Avoid direct sunlight. Avoid excessive temperatures.

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

Thermal decomposition:

No data available.

11. Toxicological information

12. Ecological information

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility.

Dispose of in a licensed facility.

Do not discharge substance/product into sewer system.

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Container disposal:

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US

released / listed

CERCLA RQ

5,000 LBS

100 LBS

SARA 313:

CAS Number

107-21-1

123-91-1

Chemical name

ethyleneglycol

1,4-dioxane

CAS Number

107-21-1

Chemical name

ethyleneglycol

State regulations

State RTK

CAS Number

108-01-0

Chemical name

2-dimethylaminoethanol

State RTK

MA, NJ, PA

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other information

HMIS III rating

Health: 1

Flammability: 1

Physical hazard: 1

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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Local contact information

1-800-888-3342

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