

MATERIAL SAFETY DATA SHEET



4011 Hyde Park Blvd.
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JANUARY 2011

Jet Set Resin

go to **PAGE 2**

Jet Set Hardner

go to **PAGE 4**

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SECTION I - PRODUCT IDENTIFICATION

Product Name: **Cold Cure Resin PART A**

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| CHEMICAL NAME | AMOUNT | CAS NUMBER | OSHA PEL | ACGIH TLV |
|--|--------|------------|---------------------|---------------------|
| Diglycidyl Ether of Bisphenol A (DGEBCA) | 80-90% | 25068-38-6 | none established | none established |
| Dibutyl Phthalate | 10-20% | 84-74-2 | 5 mg/m ₃ | 5mg/m ₃ |
| m-Cresol | 1-5% | 108-39-4 | 5 ppm | 22mg/m ₃ |

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Range: not applicable
 Vapor Density: Heavier than Air
 Evaporation Rate: Slower than Ether
 Appearance and Odour: Colourless liquid with characteristic phenolic odour.

Specific Gravity: 1.15
 Material V.O.C.: None
 Water Solubility: Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 300°F Method: Pinsky-Martens Closed Cup Flammable Limits in Air By Volume - Lower: N/A Upper: N/A
Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog

SECTION V - REACTIVITY DATA

Stability: Stable. Hazardous Polymerization: Will not occur.
Incompatibility: Strong oxidizing agents, Lewis and mineral acids.
Hazardous Decomposition Products: Oxides of carbon, aldehydes, acids
Conditions to Avoid: Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in large mass as the ensuing exotherm may result in heat and smoke resulting in hazardous decomposition products.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: Eye contact, ingestion, skin contact.
ACUTE EFFECTS OF OVEREXPOSURE:
Eye contact: may cause severe irritation or corrosive damage.
Inhalation: May cause irritation to nose, throat, respiratory tract.
Ingestion: None known.
Skin contact: Prolonged contact causes skin burns.
Chronic: May cause skin sensitization from prolonged and repeated contact.

2
Carcinogenicity: Early studies with DGEBCA have been negative. The IARC concluded in 1988 that DGEBCA was not classifiable as a carcinogen.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush with water for 15 minutes holding eyelids open. Seek medical attention.
Ingestion: Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 2 tablespoons syrup of ipecac (1 tablespoon and 1 glass of water for child). If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of throat. Keep head below hips while vomiting. Get medical attention.
Skin Contact: Remove contaminated clothing and shoes and wipe excess off skin. Flush skin with water. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned.

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Contaminated leather articles (shoes) cannot be decontaminated and should be destroyed.

Medical Conditions Generally Aggravated by Exposure: Other than skin sensitization which appears to be permanent, epoxy resin does not appear to cause long term health effects. Nor, does it appear to aggravate other medical conditions.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

If Material is Spilled: Avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust, or other absorbent, and shoveled into disposal containers.

Waste Disposal Method: Place in an appropriate disposal facility in compliance with all federal, provincial, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none is required when adequate ventilation is provided. In the absence of proper environmental control, a NIOSH approved respirator for organic vapours is required. For emergencies, a self-contained breathing apparatus or full-faced respirator is recommended.

Ventilation: Provide adequate ventilation in work areas. Confine material in sealed containers when not in use.

Hand Protection: Always wear impervious gloves, neoprene, vinyl or rubber.

Eye Protection: Splash proof goggles or safety spectacles with side shields are recommended. Always wear eye protection when sanding cured epoxy resins to avoid dust in eyes.

Other Protective Equipment: Wear clean, body-covering clothing to avoid skin contact.

SECTION IX - TRANSPORTATION REQUIREMENTS

Transportation of Dangerous Goods Classification: Not regulated

Consumer warnings: Caution: Irritant, skin sensitizer.

All components in this product are on the Domestic Substances List.

Other Requirements: U.S. EPA:

This product contains the following toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.:

Dibutyl Phthalate 10-20% 84-74-2 5 mg/m³ 5mg/m³

m-Cresol 1-5% 108-39-4 5 ppm 22mg/m³

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SECTION I - PRODUCT IDENTIFICATION

Product Name: **Jet Cure Hardener PART B**

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| HAZARDOUS COMPONENTS | AMOUNT | CAS NUMBER | OSHA PEL | ACGIH TLV |
|--|--------|------------|------------------|------------------|
| N-Aminoethylpiperazine | 10-20% | 140-31-8 | none established | none established |
| Nonyl Phenol | 60-70% | 84852-15-3 | none established | none established |
| 2-Methylpentamethylene Diamine Aliphatic diamine | 20-30% | 15520-10-2 | none established | none established |

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Range: 204°C Specific Gravity: 0.94
Vapor Density: Heavier than Air Material V.O.C.: None
Evaporation Rate: Slower than Ether Water Solubility: Negligible
Appearance and Odor: Straw yellow mobile liquid with ammonia-like odour.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 110°C Method: Pinsky-Martins Closed Cup
Flammable Limits in Air By Volume: Lower: N/A Upper: N/A
Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog
Special Firefighting Procedures:
When fighting chemical fires wear full protective equipment with self-contained breathing apparatus. Water spray may be used to cool fire-exposed containers. Toxic fumes will be evolved when this substance is burned.

SECTION V - REACTIVITY DATA

Stability: Stable
Conditions and Materials to Avoid: Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in large mass as the ensuing exotherm may result in heat and smoke.
Incompatibility: Strong oxidizing agents, mineral acids.
Hazardous Decomposition Products: Oxides of carbon, nitrogen, ammonia at elevated temperatures.
Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: Eye contact, inhalation, ingestion, skin contact.
ACUTE EFFECTS OF OVEREXPOSURE:
Eye contact: may cause severe irritation or corrosive damage.
Inhalation: Severe irritation to nose, throat, respiratory tract.
Ingestion: May cause bleeding of intestinal tract.
Skin contact: Prolonged contact causes skin burns.
CHRONIC EFFECTS OF OVEREXPOSURE: May cause skin sensitization from prolonged and repeated contact.
4
Carcinogenicity: None of the materials in this product are listed by the NTP, IARC, or OSHA as a known carcinogen.
EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush with water for 15 minutes holding eyelids open. Seek medical attention.
Ingestion: Do not induce vomiting. Give large quantities of water to dilute and get medical attention.
Skin Contact: Remove contaminated clothing and shoes and wipe excess off skin. Flush skin with water. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned.

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Contaminated leather articles (shoes) cannot be decontaminated and should be destroyed.

Medical Conditions Generally Aggravated by Exposure: Existing skin or respiratory conditions can be aggravated by prolonged or repeated exposure to this product.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

If Material is Spilled: Avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust, or other absorbent, and shoveled into disposal containers.

Waste Disposal Method: Place in an appropriate disposal facility in compliance with all federal, provincial, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Normally none is required when adequate ventilation is provided. In the absence of proper environmental control a NIOSH approved respirator for organic vapour is required. For emergencies, a self-contained breathing apparatus or full-faced respirator is recommended.

Ventilation: Provide adequate ventilation in work areas. Confine material in sealed containers when not in use.

Hand Protection: Always wear impervious gloves, neoprene, vinyl or rubber.

Eye Protection: Splash proof goggles or safety spectacles with side shields are recommended. Always wear eye protection when sanding cured epoxy resins to avoid dust in eyes.

Other Protective Equipment: Wear clean, body-covering clothing to avoid skin contact.

SECTION IX – OTHER REQUIREMENTS

T.D.G. Classification:

AMINES, LIQUID, CORROSIVE, N.O.S., (2-METHYLPENTAMETHYLENEDIAMINE), 8, UN2735, PG II.

Consumer Warnings: DANGER! Corrosive

U.S. EPA Right-To-Know SARA Title III:

This product contains no toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.