



Pacific Polymers

A Division of **ITW**

12271 Monarch Street
Garden Grove, CA 92841
(800) 888-8340

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT RESCRETE RCCR B-COMPONENT

MSDS DATE: October 6, 2009

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RESCRETE RCCR [B-COMPONENT]
PRODUCT CODES: RCCR-B

MANUFACTURER: PACIFIC POLYMERS
DIVISION: A DIVISION OF ITW
ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841
INFORMATION PHONE: 714-898-0025
FAX PHONE: 714-898-5687

EMERGENCY PHONE: 1-800-424-9300 CHEMTREC

PRODUCT USE: EPOXY CURING AGENT
PREPARED BY: PACIFIC POLYMERS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT</u>
Benzyl alcohol	100-51-6	> 30%
Methylenebis(cyclohexanamine, 4,4'- Reaction product of bisphenol A epoxy	1761-71-3	< 40 %
Homopolymer and amine curative	129733-57-9	25%

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive Liquid Mixture
Components of the product may affect the nervous system.
Severe eye irritant.
Severe respiratory irritant.
Severe skin irritant.

ROUTES OF ENTRY: skin, inhalation, eyes

POTENTIAL HEALTH EFFECTS

ACUTE:

INHALATION: Harmful if inhaled and may cause delayed lung injury. Can cause respiratory burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. Inhalation of vapors and/or aerosols in high concentration may cause irritation.

Eye contact : Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact : Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Ingestion : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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. Prolonged contact may result in chemical burns and permanent damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Eye disease Skin disorders and Allergies. Asthma. Neurological disorders



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SECTION 4: FIRST AID MEASURES

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

Eye contact : Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Skin contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

Ingestion : Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: no data
(% BY VOLUME) LOWER:

FLASH POINT: 112°C (234°F)

AUTOIGNITION TEMPERATURE: no data

HMIS HAZARD CLASSIFICATION

HEALTH: 3 **FLAMMABILITY:** 1 **REACTIVITY:** 0
PROTECTION: glove, goggles, respirator, coverall/apron

EXTINGUISHING MEDIA: Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical, Dry sand, Limestone powder.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary. Downwind personnel must be evacuated.

HAZARDOUS DECOMPOSITION PRODUCTS: : Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes.

SECTION 5 NOTES: Do not allow run-off from fire fighting to enter drains or water courses., Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection. Use selfcontained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

Environmental precautions : Construct a dike to prevent spreading.

Methods for cleaning up : Contact Air Products' Emergency Response Center for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional advice : Open enclosed spaces to outside atmosphere. If possible, stop flow of product.



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SECTION 7: HANDLING AND STORAGE

HANDLING: Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes. 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: Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place. Product may partially freeze with extended exposure to cold temperatures, resulting in crystallization, haziness or separation. If this occurs, product should be warmed to 100-140F (38-60C) for one hour and stirred until clear. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

RESPIRATORY PROTECTION: Wear appropriate respirator when ventilation is inadequate.

EYE PROTECTION: Chemical resistant goggles must be worn. If splashing is suspected, wear full shield with goggles underneath.

SKIN PROTECTION: Butyl-rubber, Nitrile rubber, Neoprene gloves, Impervious gloves, PVC disposable gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious clothing. Full rubber suit (rain gear). Rubber or plastic boots. Long sleeve shirts and trousers without cuffs. Slicker Suit.

WORK HYGIENIC PRACTICES: Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

EXPOSURE GUIDELINES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : clear to straw
Odor : Ammonia like
Weight per Gallon: 8.58 lb
Vapor pressure : < 10.34 mmHg at 21 °C
Specific Gravity : 1.03 g/cm³ @ 70 °F (21 °C)
pH : Alkaline
Boiling point: 405 °F (207 °C)
Flash point : 233 °F (112 °C)
Water solubility : < 0.1 g/liter

SECTION 10: STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Materials to avoid : Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Hazardous decomposition products: Nitric acid. Ammonia, Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO₂). Aldehydes, Flammable hydrocarbon fragments.

SECTION 11: TOXICOLOGICAL INFORMATION



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TOXICOLOGICAL INFORMATION:

Acute Health Hazard

Ingestion : LD50 : > 2,000 mg/kg (rat)(estimated)

Inhalation : No data is available on the product itself.

Inhalation data on Component

Benzyl alcohol LC50 (4 h) : > 4.178 mg/IOECD Test Guideline 403 (rat)

Skin. : LD50 : > 2,110 mg/kg (rabbit)

Eye irritation/corrosion : Severe eye irritation.

Acute dermal irritation/corrosion: Severe skin irritation. Corrosive to the skin of a rabbit.

Sensitization : May cause sensitization of susceptible persons by skin contact.

Chronic Health Hazard

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Toxicity to fish - Components

Benzyl alcohol LC50 (96 h) : 10 mg/l Species : Bluegill sunfish (*Lepomis macrochirus*).

Benzyl alcohol LC50 (96 h) : 460 mg/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) : 700 mg/l Species : Algae.

Methylenebiscyclohexanamine, 4,4'- EC50 (72 h) : 140 - 200 mg/l Species : Algae.

Toxicity to other organisms : No data available.

Persistence and degradability

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Benzyl alcohol Low bioaccumulation potential.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

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

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (4,4'-Methylenebiscyclohexanamine)

HAZARD CLASS: 8



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ID NUMBER: UN2735
PACKING GROUP: III

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (4,4'-Methylenebiscyclohexanamine)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: III

AIR TRANSPORTATION (IATA)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (4,4'-Methylenebiscyclohexanamine)
HAZARD CLASS: 8
ID NUMBER: UN2735
PACKING GROUP: III

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients used for the product are listed in TSCA inventory.
OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es): Corrosive.

INTERNATIONAL REGULATIONS:

EU EINECS Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada DSL: Not on Inventory.
Australia AICS: Included on Inventory.
Japan ENCS: Included on Inventory.
South Korea ECL: Not on Inventory.
China SEPA: Included on Inventory.
Philippines PICCS : Not on Inventory.

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 chemicals known to State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification

Toxic Material Causing Other Toxic Effects, Corrosive Material

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

HMIS Rating

Health : 3
Flammability : 1
Physical hazard : 0
Protection: respirator, gloves, goggles, coverall, boots



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PREPARATION INFORMATION: October 6, 2009

DISCLAIMER:

A MSDS such as this cannot be expected to cover all possible individual situations. The end user of this product has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health and safety information contained herein should be passed on to your customers and/or employees.

The opinions expressed herein are those of qualified experts within Pacific Polymers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the use of this product are not within the control of Pacific Polymers final determination of suitability of this product is the sole responsibility of the user. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.

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