



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT RESCRETE RCH2O (B-COMPONENT)

MSDS DATE: 3/14/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RESCRETE RCH2O [B-COMPONENT]
 PRODUCT CODES: RCH2O-B
 MANUFACTURER: ER SYSTEMS (AN ITW COMPANY)
 DIVISION: A DIVISION OF ITW
 ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841
 INFORMATION PHONE: 714-898-0025
 FAX NUMBER: 714-898-5687

EMERGENCY Contact during transport:
 INFOTRAC 1-800-535-5053
 CUSTOMER ID: 74919

CHEMICAL FAMILY: EPOXY CURING AGENT

PRODUCT USE: WATERBASE EPOXY FLOOR COATING
 PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	STEL	LD50/LC50	WT %
Isopropanol #67-63-0	400ppm	400ppm	500ppm	Oral LD50 (rat): 5800mg/kg Oral LD50 (rabbit): 7900 mg/kg Oral LD50 (dog): 6200mg/kg Inhalation LC50 (rat):12000ppm/8h Skin irritation: slight (rabbit) Eye Irritation: moderate (rabbit)	<7%
Acetic Acid #64-19-7	10ppm	10ppm (TWA)	15 ppm (NIOSH)	LC50 (1h): 5620ppm (rat) LD50 (rabbit, skin):> 5000mg/kg	< 1%
Polyamine #mixture	No data	No data	No data	LD50(rat, oral): 6700mg/kg LD50(dermal, rabbit): >2000 mg/kg LC50(rat, inhalation): >10 mg/liter/1 hour	35 – 50%
Water	No data	No data	No data		30 - 45%

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Mild to moderate respiratory tract irritant, severe eye irritant, Mild to moderate skin irritant, corrosive to eyes, risk of serious damage to eyes. High vapor concentration may cause drowsiness.

ROUTES OF ENTRY: Eye, Skin, respiratory system

POTENTIAL HEALTH EFFECTS:

EYES: Severe eye irritation, may cause eye burns

SKIN: Mild to moderate skin irritation

INGESTION: no data available

INHALATION: Harmful if inhaled. May cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system such as sore throat.



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CHRONIC HEALTH HAZARDS: To the best of our knowledge the ingredients used for this component does not contain carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Repeated or prolonged contact may cause sensitization, asthma and eczemas.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Adverse eye effects such as conjunctivitis or corneal damage. Eye diseases, skin disorders and allergies. Adverse skin effects such as rash, irritation or corrosion. Adverse respiratory effects such as cough, tightness of chest or shortness of breath (Asthma). Product contains Isopropanol (Rubbing Alcohol). Prolonged and Repeated skin contact may cause drying, and/or cracking.

SECTION 4: FIRST AID MEASURES

EYES: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately and promptly.

SKIN: Remove contaminated clothing and shoes. Remove product and immediately flush affected area with water for at least 15 minutes. Launder contaminated clothing prior to reuse.

INGESTION: If a person vomits when lying on his/her back, place him/her in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side. Get medical attention. Do not anything by mouth if person is unconscious.

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

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: 106F

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

EXTINGUISHING MEDIA: Alcohol-Resistant Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Limestone Powder

SPECIAL FIRE FIGHTING PROCEDURES: Use personal protective equipment. Wear Self-Contained breathing apparatus for firefighting if necessary. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may cause flash fire if applied with poor ventilation. Shut down pilot light or any other flame, spark and/or ignition source to avoid any flash fires.

HAZARDOUS DECOMPOSITION PRODUCTS: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Burning produces obnoxious and toxic fumes. Downwind personnel should be evacuated in case of large fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Eliminate all ignition sources. Dike the area and collect the liquid waste in a container. The collected waste can be disposed either by solidifying with the A-Component (Resin Component) or as in accordance to regulations as liquid waste. Vermiculite or other inert materials could be used to absorb spill. Wear necessary protective equipment and clothing to avoid contact. Dispose the waste in accordance to federal, state or local regulations. Prevent material from entering drains or water courses. Do not flush into surface water or sanitary system. Wear protective equipment to avoid contact.

SECTION 7: HANDLING AND STORAGE



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HANDLING AND STORAGE: Store in a cool dry place. Keep away from open flames and high temperatures. Avoid eye and skin contact. Avoid breathing vapors and/or aerosols. Wash with soap and water before eating, drinking, and smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing before reuse. Dispose contaminated clothing and protective equipment if unable to decontaminate.

OTHER PRECAUTIONS: KEEP AWAY FROM CHILDREN. Keep away from ignition sources such as fire, flame and sparks. **KEEP FROM FREEZING.**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below exposure limits.

RESPIRATORY PROTECTION: Not required under normal conditions in a well-ventilated workplace especially when roll or brush applying. In atmospheres where the material is sprayed, workers should avoid contact with aerosols through usage of proper protective equipment such as full-face air-supplied respirators or respirators with charcoal or organic vapor cartridge.

EYE PROTECTION: Chemical tight goggles; full face shield in addition if splashing is possible.

SKIN PROTECTION: Chemical resistant gloves such as neoprene, butyl rubber, and nitrile.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT / WORK HYGIENIC PRACTICES: Wear coveralls or aprons to protect from skin contact. Provide eyewash stations and showers. Provide proper training to the applicators. Wash before eating, drinking, smoking or using the restroom. Wash the contaminated clothing and equipment before reusing them.

EXPOSURE GUIDELINES: see section 2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pigmented liquid mixture

ODOR: ammoniacal to slight alcohol

PHYSICAL STATE: Fluid

BOILING POINT: >= 179F

FREEZING POINT: < 40F

VAPOR PRESSURE (mmHg): 15 – 18 mm Hg @ 70F

VAPOR DENSITY (AIR = 1): of water vapor

SPECIFIC GRAVITY (H2O = 1): 1.1 – 1.2

EVAPORATION RATE: slower than butyl acetate

SOLUBILITY IN WATER: miscible in water

PERCENT SOLIDS BY WEIGHT: 55 +/- 5%

VOLATILE ORGANIC COMPOUNDS (VOC): less than 100 grams per liter (minus water)

VISCOSITY: 1000 cps

SECTION 10: STABILITY AND REACTIVITY

STABILITY: stable under normal conditions. DO NOT FREEZE.

MATERIAL TO AVOID: mineral acids, oxidizing agents, sodium hypochlorite, peroxides

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia, nitric acid

HAZARDOUS POLYMERIZATION: none known

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: see section 2 for information



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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Aquatic Toxicity: no data available on the product itself.

Toxicity to other organisms: no data available

Toxicity to fish

Component: Acetic Acid: LC50 (96h): 75 mg/l (Bluegill sunfish)

LC 50 (96h): 79 mg/l (Fathead Minnow)

EC50 (48h): 65mg/l (Daphnia)

Component: Isopropanol: LC50 (48h): 8970 – 9280 mg/l (golden orfe)

LC 50 (96h) : > 1000ul/l (Fathead Minnow)

LC50 (96h): > 1000 ul/l (Daphnia)

Oxygen Demand Data: (Isopropanol)

BOD-5: 1190 – 1720 mg/g

BOD-20: 1680 mg/g

COD (Chemical Oxygen Demand): 2230 mg/g

ThBOD: 2400 mg/g

Persistence and Degradability: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (Ground): Not Regulated

IATA (Air):

Proper Shipping Name: Paint (Flammable Liquid)

Class: 3

ID: UN 1263

PG: III

IMDG (Marine):

Proper Shipping Name: Paint (Flammable Liquid)

Class: 3

ID: UN 1263

PG: 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: Irritant, Sensitizer

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimus' level: none known

Proposition 65 (California Safe Drinking Water & Toxic Enforcement Act): none known

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

WHMIS Hazard Classification (CANADA): Toxic Material Causing Other Toxic Effects

PREPARATION INFORMATION: 3/13/2012

DISCLAIMER:



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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.