

MATERIAL SAFETY DATA SHEET

System Three Resins, Inc.

3500 W. Valley Hwy N; Suite 105

Auburn, Washington 98001

SECTION I - PRODUCT IDENTIFICATION

Product Name: **WR-155, WR-COR Part A**
MSDS Number: 20006
Product Type: Water/Polyamine Mixture
24-hr Emergency Phone:
CHEMTREC (800) 424-9300

Date of Preparation: 8/18/00
Previous Revision: 3/2/00
Reason Revised: New address
Information: 253-333-8118
Prepared By: B. Cowman

Hazard Ratings:
Health 2
Fire 1
Reactivity 0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	WT%	CAS NO.	OSHA-PEL	ACGIH-TLV
Isopropyl Alcohol	1-10	67-63-0	400 ppm	400 ppm
Aliphatic Polyamides	20-30	(trade secret)	none established	none established

SECTION III - PHYSICAL PROPERTIES

BOILING RANGE: 190-212°F
SPECIFIC GRAVITY: 1.3
EVAPORATION RATE: Slower than Ether
APPEARANCE AND ODOR: Thin liquid, white or gray, with mild, characteristic odor.

VAPOR DENSITY: Heavier than Air
MATERIAL V.O.C.: 100-250 g/l
WATER MISCIBILITY: Complete

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A (Water Solution) Method: N/A
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 may be evolved when this substance is burned.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Eye Contact: May cause severe irritation.
Inhalation: May cause irritation to nose, throat, or lungs.
Ingestion: May cause gastrointestinal irritation.
Skin Contact: May cause irritation.

Chronic: Prolonged and repeated exposure to m-methyl pyrrolidone may cause skin irritation.

Carcinogenicity: This product and its components are not listed as carcinogens by OSHA, NTP, or IARC.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush thoroughly with water for at least 15 minutes. If irritation persists, get medical attention.
Inhalation: Remove to fresh air. Administer oxygen if necessary. Get medical attention if breathing is difficult or cough develops.
Ingestion: DO NOT INDUCE VOMITING. Give one or two glasses of water or milk to drink. If irritation persists, get medical attention.
Skin Contact: Remove contaminated clothing and flood area with water. Wash affected area with soap and water. Wash clothing before reuse. Discard shoes. Get medical attention if redness, soreness, or blistering occur or persist.

WR-155, WR-COR Part A (cont.)

Medical Conditions Generally Aggravated by Exposure: None known.

SECTION VI - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None known.

Incompatibility (Materials to avoid): Strong oxidizing agents, mineral acids.

Hazardous Decomposition Products: Oxides of carbon, nitrogen.

Hazardous Polymerization: Will not occur.

SECTION VII – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released:

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: Waste is not hazardous by RCRA criteria. (40 CFR 261). Place in an appropriate disposal facility in compliance with local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator is required when spraying this material. 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 material to avoid dust in eyes.

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

SECTION IX - TRANSPORTATION REQUIREMENTS

Department of Transportation Classification: Not Regulated

Other Requirements:

SARA Title III Section 313:

This product contains no toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.

MATERIAL SAFETY DATA SHEET

System Three Resins, Inc.

3500 W. Valley Hwy N; Suite 105

Auburn, Washington 98001

SECTION I - PRODUCT IDENTIFICATION

Product Name: **WR-155, WR-COR Activator**

MSDS Number: 20007

Previous Revision: 3/1/00

Product Type: Epoxy Resin Mixture

24-Hr. Emergency Phone:

CHEMTREC: 1-800-424-9300

Date of Prep: 8/18/00

Reason Revised: New Address

Information: 253-333-8118

Prepared By: B. Cowman

Hazard Ratings:

Health 2

Fire 1

Reactivity 0

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS
COMPONENTS

AMOUNT

CAS NUMBER

OSHA PEL

ACGIH TLV

Diglycidyl Ether of

Bisphenol A (DGEBA)

Alkylglycidyl Ether

> 70%

< 30%

25068-38-6

68081-84-5

none established

none established

none established

none established

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Range: not applicable

Vapor Density: Heavier than Air

Evaporation Rate: Slower than Ether

Appearance and Odor: Clear, syrupy liquid with little or no odor.

Specific Gravity: 1.1-1.3

Material V.O.C.: None

Water Solubility: Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 300°F

Flammable Limits in Air By Volume - Lower: N/A

Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog

Method: Pensky-Martens Closed Cup

Upper: N/A

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 may be evolved when this substance is burned.

SECTION V - REACTIVITY DATA

Stability: Stable.

Incompatibility: Strong oxidizing agents, Lewis and mineral acids.

Hazardous Polymerization: Will not occur.

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

EFFECTS OF OVEREXPOSURE:

Acute: Slightly irritating to skin, moderately irritating to eyes. Odor may irritate nose, throat and respiratory tract of some persons.

Chronic: May cause skin sensitization from prolonged and repeated contact.

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

WR-155, WR-COR Activator (Cont.)

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush with water for 15 minutes holding eyelids open. Seek medical attention.

Skin: 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. Contaminated leather articles (shoes) can not be decontaminated and should be destroyed.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get 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.

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: Waste is not hazardous by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with 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 NIOSH approved respiratory 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

Department of Transportation Classification: Not Hazardous

D.O.T. Proper Shipping Name: Not Regulated

Other Requirements:

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.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.