

# MATERIAL SAFETY DATA SHEET



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ResoSeal 805 Tie-Coat Part B Resin

CAS Number: Mixture

**Product Description:** Resodyn ResoSeal 805 Tie-Coat provides excellent high-strength interlayer cohesive bonding of Resodyn ResoSeal 800 Concrete Sealer to ResoCoat 301 Polymer Thermal Spray coatings.

**Manufacturers Name:**

**Resodyn Engineered Polymeric Systems**

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Butte, Montana 59701

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>	<u>OSHA PEL (TWA)</u>	<u>ACGIH TWA</u>
Bisphenol A Diglycidyl Ether Resin	PROPRIETARY	25068-38-6	Not Listed	Not Listed
Epichlorhydrin	PROPRIETARY	106-89-8	5 ppm	2 ppm

Balance of ingredients are non-hazardous as defined by OSHA 29 CFR 1910.1200 or hazardous in less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

**CALIFORNIA PROP 65:** This product does not contain an ingredient(s), above the safe harbor limits, which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

**HAZARDS DISCLOSURE:** This product does contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING! CAN CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED SKIN EXPOSURE MAY RESULT IN SENSITIZATION**

### POTENTIAL HEALTH EFFECTS

**ROUTES OF ENTRY:** Eyes, Skin, Inhalation.

**TARGET ORGANS:** None Known

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**INHALATION:** Headache, nausea, and irritation to nose and throat. Prolonged or repeated exposure may cause asthma.

**INGESTION:** Not expected to be a normal route of exposure. No treatment is necessary unless large quantities of product are ingested

**SKIN CONTACT:** Moderate irritation and dryness. Prolonged or repeated exposure may result in sensitization.

**EYE CONTACT:** Can cause moderate irritation to inflammation and corneal opacity.

**CHRONIC EXPOSURE:** None known

**AGGRAVATION OF PRE-EXISTING CONDITIONS:** Individuals with pre existing skin, eye or respiratory conditions may be more susceptible to over-exposure to this material.

## 4. FIRST AID MEASURES

**INHALATION FIRST AID** If difficulty breathing, move to fresh air at once. Apply artificial respiration if breathing has stopped. Seek medical attention.

**SKIN CONTACT FIRST AID:** Wash promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety shower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

**EYE CONTACT FIRST AID:** Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**INGESTION FIRST AID:** Do not induce vomiting - in general, no treatment is necessary unless large quantities of product are ingested, however, seek medical attention.

**NOTE TO PHYSICIANS:** Treat symptoms

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**AUTO IGNITION TEMPERATURE:** Not Established

**FLASH POINT:** 295°F (146°) PCC

**FLAMMABLE LIMITS IN AIR, % by Volume:** lel: NE.; uel: NE

**EXTINGUISHING MEDIA:** Water fog, foam, carbon dioxide, and dry chemicals. NOTE: Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting operations such as grinding or drilling.

**FIRE & EXPLOSION HAZARDS:** None, will burn if ignited. Combustion products may be toxic.

### SPECIAL INFORMATION:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL CLEAN-UP PROCEDURES:** Small spill: absorb with non-combustible, granular material (e.g. sand). Remove by mechanical means and place material in covered container temporarily for later disposal. Large spill: evacuate area. Turn off ignition sources. Stop leak, if possible, without risk. Wear self-contained breathing apparatus and full protective clothing during clean up. Dike spill and pump into salvage tank. Absorb remaining liquid with sand or other non-combustible, granular material. Remove by mechanical means. Always dispose of wastes in accordance with local, state and federal regulations.

## 7. HANDLING AND STORAGE

**RECOMMENDED STORAGE CONDITIONS:** Protect against physical damage. Store containers in a cool, dry, well ventilated location. Keep container closed when not in use. Keep away from direct heat and flame. Do not store near acids or in direct sunlight. Observe all warnings and precautions listed for the product.

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**HANDLING (PERSONNEL):** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin, and clothing. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using this product, do not eat, drink or smoke.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**AIRBORNE EXPOSURE LIMITS:** See Section 2 above.

**VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**PERSONAL RESPIRATORS (NIOSH APPROVED):** If the exposure limit is exceeded a respirator may be required. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

**SKIN PROTECTION:** Impervious gloves, neoprene, or other suitable long-sleeved and legged clothing. Launder clothing before reuse.

**EYE PROTECTION:** Use safety glasses and/or goggles, as appropriate where splashing or contact is possible.

**GOOD HYGIENE CONDITIONS:** Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**FORM:** Liquid

**ODOR:** Mild odor

**SOLUBILITY IN WATER:** Moderate

**MELTING POINT:** Not Applicable

**AUTO IGNITION TEMPERATURE:** Not Established

**pH:** Not Established

**COLOR:** Various colors

**BOILING POINT:** 392°F (>200°C)

**SPECIFIC GRAVITY:** 1.14

**EVAPORATION RATE (BuAc=1):** Not Established

**FLASH POINT:** 295°F (146°) PCC

**VAPOR PRESSURE:** 1.0 mm Hg @ 180°F

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under ordinary conditions of use and storage.

**CONDITIONS TO AVOID** Contamination with water and high temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY WITH OTHER MATERIALS:** avoid contact with strong oxidants, strong Lewis acids, strong mineral acids, and organic bases.

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, aldehydes, ketones, acids, and various complex hydrocarbons may be formed during combustion.

## 11. TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA:

MUTAGENIC EFFECTS: None known

REPRODUCTIVE TOXICITY: None known

TERATOGENIC EFFECTS: None known

LC50/LD50: There is no data available.

EYE IRRITANT: Yes

INGESTION IRRITANT: Yes

INHALATION IRRITANT: No

RESPIRATORY SENSITIZER: No

SKIN IRRITANT: Yes

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SKIN SENSITIZER: Yes

## 12. ECOLOGICAL INFORMATION

### AQUATIC TOXICITY:

No data is available on the product itself.

**MOBILITY:** No data available

**BIOACCUMULATION:** No data available on the product itself.

**HAZARDOUS AIR POLLUTANT:** No data available on the product itself.

## 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL:

Recover, reclaim or recycle when practical.

Dispose of material in accordance with federal, state and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

## 14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)

This product is Not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

DOT I.D. NO.: NA

DOT SHIPPING NAME: PAINT & RELATED MATERIAL, COMPOUNDS

DOT HAZARD CLASS: NA

PACKING GROUP: NA

LABEL: NA

## SECTION 15. REGULATORY

## 15. REGULATORY INFORMATION

### FEDERAL REGULATORY STATUS

#### *Chemical Inventory Status - Part 1*

Ingredient	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
All Ingredients	YES	YES	YES	YES

#### *Chemical Inventory Status - Part 2*

Ingredient	<u>Korea</u>	<u>DSL</u>	<u>CANADA</u>	<u>Phil.</u>
All Ingredients	YES	YES	<u>NDSL</u>	YES
			NO	

#### *Federal, State & International Regulations - Part 1*

Ingredient	<u>-SARA 302-</u>	<u>TPQ</u>	<u>List</u>	<u>-SARA 313-</u>
All Ingredients	<u>RQ</u>	NO	NO	<u>Chemical Catalog</u>
	NO			NO
Ingredient	<u>CERCLA</u>		<u>-RCRA-</u>	<u>-TSCA-</u>
All Ingredients		NO	<u>261.33</u>	<u>8(d)</u>
			NO	NO

**SARA 311/312:** Acute: Yes Chronic: No Fire: Yes Pressure: No

Reactivity: No (Pure / Liquid)

**SARA 313:** This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372. None

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## STATE REGULATIONS:

### PROP 65 - WARNING:

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

RCRA 40 CFR: None.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: Korea (TCCL), Australia (AICS), China (Draft), PICCS (Philippines-RA6969), Japan (ENCS METI/MOL).

## 16. OTHER INFORMATION

Hazardous Material Information System (HMIS):	<b>Health</b>	<b>2</b>
	<b>Flammability</b>	<b>1</b>
	<b>Reactivity</b>	<b>0</b>
	<b>Personal Protection</b>	<b>G</b>

National Fire Protection Association (NFPA) 2-Health, 1-Flammability, 0-Reactivity

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: GOGGLES & SHIELD; PROPER GLOVES; RESPIRATOR

Prepared By: Paul Eigbrett (MSDS Authoring PLUS)

Part Number: --

Date: May 3, 2011

Supersedes Date: New

### ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

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END OF MSDS