

MATERIAL SAFETY DATA SHEET



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ResoSeal 800

CAS Number: Mixture

PRODUCT DESCRIPTION: Resodyn ResoSeal 800 Concrete Sealer is a water-based acrylic coating that provides a completely sealed pinhole free surface over porous substrate surfaces. This product can be used as a base layer sealer and concrete bond coating prior to the application of Resodyn ResoCoat 301 Polymer Thermal Spray top coatings. See Resodyn ResoCoat 301 product data sheet for details.

MANUFACTURERS NAME:

Resodyn Engineered Polymeric Systems

130 North Main Street Suite 650

Butte, Montana 59701

(406) 497-5288 Business Phone#

(406) 497-5206 Fax#

(406) 497-5289 Emergency Phone#

www.resodyn.com

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>
Acrylic Emulsion	PROPRIETARY	Not Listed	Not Listed	Not Listed
1-(2-butoxy-1-methylethoxy)propan-2-ol	PROPRIETARY	29911-28-2	Not Listed	Not Listed
Ammonia, aqueous solution	PROPRIETARY	1336-21-6	50 ppm	25 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).

COMPOSITION NOTE: This product may contain trace amounts of quartz CAS# 14808-60-7.

CALIFORNIA PROP 65: This product does 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! HARMFUL IF SWALLOWED. PROLONGED CONTACT CAN CAUSE EYE AND SKIN IRRITATION.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eyes, Inhalation, Ingestion.

MATERIAL SAFETY DATA SHEET

TARGET ORGANS: None Known

INHALATION: Inhalation of vapors or mists may cause respiratory irritation.

INGESTION: May cause irritation to the mouth, throat, and abdomen. May also cause nausea or vomiting.

SKIN CONTACT: Prolonged contact may cause irritation.

EYE CONTACT: Contact with the eyes may cause irritation.

CHRONIC EXPOSURE: No known chronic health effects.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known

4. FIRST AID MEASURES

INHALATION FIRST AID: If individual develops breathing difficulties, remove to fresh air and seek medical attention if breathing difficulties continue.

SKIN CONTACT FIRST AID: Use good hygiene practices and wash skin with soap and water after handling.

EYE CONTACT FIRST AID: If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally. Get medical attention immediately.

INGESTION FIRST AID: Induce vomiting ONLY as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice immediately.

NOTE TO PHYSICIANS: Treat symptoms.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Non-Flammable water based solution

AUTO IGNITION TEMPERATURE: Not Applicable

FLASH POINT: Non-Flammable

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

EXTINGUISHING MEDIA: Use fire extinguishing materials appropriate for surrounding fire including water spray, dry extinguishing media, foam.

FIRE & EXPLOSION HAZARDS: This is a water based mixture and not considered to be a fire and explosion hazard.

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: Maintain adequate ventilation. Contain and recover if possible. Absorb spilled material using polypads or other suitable absorbent material. Place absorbent material in appropriate closed container. 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 location. Protect from freezing. Observe all warnings and precautions listed for the product.

HANDLING (PERSONNEL): Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, mouth.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: See Section 2 above.

MATERIAL SAFETY DATA SHEET

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): Not expected to require personal respirator. 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: Wear protective clothing as appropriate.

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

GOOD HYGIENE CONDITIONS: Wash with soap and water before eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

ODOR: Slight Odor

SOLUBILITY IN WATER: Partial Solubility

MELTING POINT: Not Applicable

AUTO IGNITION TEMPERATURE: Not Applicable

pH: Not Applicable

COLOR: Clear - Colorless

BOILING POINT: > 212°F

SPECIFIC GRAVITY: Not Established

EVAPORATION RATE (BuAc=1): Not Applicable

FLASH POINT: Not Applicable

VAPOR PRESSURE: Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: Contamination, freezing and extreme temperatures.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, Strong acids, Strong bases.

HAZARDOUS DECOMPOSITION: Thermal degradation produces carbon monoxide, carbon dioxide and ammonia gases.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:

CAS# 29911-28-2

LD50 Oral - rat - 4,000 mg/kg, LD50 Dermal - rat - > 2,000 mg/kg

CAS# 1336-21-6

Oral rat, LD50: 350 mg/kg

Carcinogenic effects: May contain trace amounts of Quartz Cas# 14808-60-7.

Mutagenic effects: None known.

Teratogenic effects: None known.

Reproductive effects: None known.

Cancer Lists:

Ingredient

Quartz (14808-60-7)

---NTP Carcinogen---

Known

Yes

Anticipated

Yes

IARC Category

Group 1

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product has not been tested for environmental fate. It is not expected to cause any adverse effects.

MATERIAL SAFETY DATA SHEET

ENVIRONMENTAL TOXICITY:

CAS# 29911-28-2

Toxicity to fish LC50 - other fish - 841 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 1,000 mg/l - 48 h

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.

Non-Regulated Material

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: No 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

STATE REGULATIONS:

PROP 65 - WARNING:

THIS PRODUCT DOES CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING: This product contains a chemical 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).

MATERIAL SAFETY DATA SHEET

16. OTHER INFORMATION

Hazardous Material Information System (HMIS):	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	A

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

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

Protective Equipment: GOGGLES & SHIELD; PROPER GLOVES;

Prepared By: Paul Eigbrett (MSDS Authoring PLUS)

Date: April 27, 2011

Part Number: --

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)

Although the information set forth herein is presented in good faith and believed to be correct as of the date of issuance, it has been furnished by our suppliers; consequently, Resodyn Corporation. makes no representations or warranties, express or implied, with respect to information herein presented. The information set forth herein is supplied upon the condition that the persons receiving same will make their own determination as to suitability for their purposes prior to use and relates only to the specific product described and not to such product in combination with any other product. In no event will Resodyn Corporation. be responsible for damages of any nature resulting from the use of or reliance upon this information.

END OF MSDS