

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **ResoBond 900 Part A**  
PRODUCT NUMBER: PU900A  
PRODUCT DESCRIPTION: This material is a durable, abrasion- and impact-resistant coating.  
U.N. NUMBER: None  
U.N. DANGEROUS GOODS CLASS: None  
SUPPLIER/MANUFACTURER'S NAME: **Resodyn Engineered Polymeric Systems**  
ADDRESS: 30 North Main Street Suite 650, Butte, Montana 59701 USA  
EMERGENCY PHONE: (406) 497-5289 (For Emergencies Only)  
BUSINESS PHONE: (406) 497-5288 (For product information)  
WEB SITE: [www.resodyncoatings.com](http://www.resodyncoatings.com)  
DATE OF PREPARATION: April 6, 2015  
DATE OF LAST REVISION: New

### SECTION 2 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

This product is a white liquid.

**HEALTH HAZARDS:** Contact with skin may cause irritation or skin allergy. Contact with eyes can cause irritation.

Inhalation can cause irritation. May be harmful if swallowed.

**FLAMMABILITY:** This product is a non-flammable.

**ENVIRONMENTAL EFFECTS:** The Environmental effects of this product have not been investigated. It is not expected that this product will have a significant adverse effect.

#### US DOT SYMBOLS

Non-Regulated Material

#### CANADA (WHMIS) SYMBOLS



#### GHS HAZARD SYMBOL(S)



Signal Word: **Danger!**

#### COMPONENTS DETERMINING HAZARDS:

All ingredients

#### GHS HAZARD CLASSIFICATION(S):

Skin Irritation Category 2

Skin Sensitization Category 1

Eye Irritation Category 2

Aquatic Chronic Category 2

Mutagenic Category 1B

Carcinogenic Category 1

#### HAZARD STATEMENTS:

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

Toxic to aquatic life with long lasting effects

May cause genetic defects

May cause cancer

#### PRECAUTIONARY STATEMENTS:

Wash thoroughly after handling.

Wear protective gloves/clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the work place.

Avoid release to the environment.

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood.

**HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

**ACUTE:**

**INHALATION:** Inhalation may cause irritation.

**EYE CONTACT:** Direct eye contact can cause serious irritation with redness, tearing and blurred vision.

**SKIN CONTACT:** May cause skin irritation. Contact with skin may cause allergic reaction.

**INGESTION:** If swallowed, can cause gastrointestinal irritation.

**CHRONIC:** None known

**TARGET ORGANS:** ACUTE: Eye, Skin, Respiratory System CHRONIC: None known

## SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

**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.

HAZARDOUS INGREDIENTS:	CAS #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
4,4'-Isopropylidenediphenol-Epichlorohydrin polymer	Trade Secret	Proprietary	HAZARD CLASSIFICATION: [Xi] Irritant RISK PHRASES: R36/38 R43
Hydrous Magnesium Silicate	14807-96-6	20-30	HAZARD CLASSIFICATION: [T]Toxic RISK PHRASES: R45
Titanium Dioxide	13463-67-7	1-10	HAZARD CLASSIFICATION: [T]Toxic RISK PHRASES: R40
Light Aromatic Solvent Naphtha (Petroleum)	64742-95-6	0-10	HAZARD CLASSIFICATION: [Xn] Harmful RISK PHRASES: R65 R45/46

Each of the other components present are less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

## SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation or blurred vision continues.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention immediately.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing skin, eye or respiratory disorders may be more susceptible when using this product.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

## SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

Non-Flammable

**AUTOIGNITION TEMPERATURE:**

Not Applicable

**FLAMMABLE LIMITS (in air by volume, %):**

Lower (LEL): Not Applicable      Upper (UEL): Not Applicable

**FIRE EXTINGUISHING MATERIALS:**

Use media applicable to surrounding fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Avoid heavy dust accumulation which could result in explosion.

Explosion Sensitivity to Mechanical Impact:

Not Sensitive.

Explosion Sensitivity to Static Discharge:

Not Sensitive

**SPECIAL FIRE-FIGHTING PROCEDURES:**  
NFPA Rating System



Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations. Contain and recover if possible. Sweep or vacuum up spilled material and place in appropriate closed container for re-use or disposal. Avoid dust generation. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). Do not discharge to sewers and surface waters. Notify authorities if entry occurs. U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## SECTION 7 - HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, mouth.

**STORAGE AND HANDLING PRACTICES:** Protect against physical damage. Store containers in a cool, dry location. Observe all warnings and precautions listed for the product.

## SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

**EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
4,4'-Isopropylidenediphenol-Epichlorohydrin polymer	Trade Secret	Not Established	Not Established
Hydrous Magnesium Silicate	14807-96-6	2 mg/ m <sup>3</sup>	2 mg/ m <sup>3</sup>
Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Light Aromatic Solvent Naphtha (Petroleum)	64742-95-6	300 ppm	300 ppm

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapors.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Not normally required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

**EYE PROTECTION:** Wear safety glasses or chemical goggles as appropriate were eye contact is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Wear chemical resistant gloves as appropriate to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent skin contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	White
ODOR THRESHOLD (PPM):	Not Applicable
VAPOR PRESSURE (mmHg):	Not Applicable
VAPOR DENSITY (AIR=1):	Not Applicable
EVAPORATION RATE (nBuAc = 1):	Not Applicable
BOILING POINT (C°):	Not Applicable
FREEZING POINT (C°):	Not Applicable
pH:	Not Applicable
SPECIFIC GRAVITY 20°C: (WATER =1)	Not Available
SOLUBILITY IN WATER (%)	Not Available
VOC:	Not Available

## SECTION 10 - STABILITY and REACTIVITY

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces Oxides of carbon (COx) and Hydrocarbons

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizers.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials and extreme temperatures

## SECTION 11 - TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** Toxicity data is available for the following components:

CAS# 13463-67-7:

Inhalation 4 h ALC : > 6.82 mg/l , rat

Dermal ALD : > 10,000 mg/kg , rabbit

Oral ALD : > 24,000 mg/kg , rat

CAS# 64742-95-6:

Oral, rat: LD50 = >6800 mg/kg;

Skin, rabbit: LD50 = >3400 mg/kg;

Inhalation, rat: LC50/4h =>10.2 mg/l

**SUSPECTED CANCER AGENT:** One or more of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Titanium Dioxide CAS# 13463-67-7

ACGIH: A4, NTP: Possible

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to skin, respiratory system and eyes.

**SENSITIZATION OF PRODUCT:** Ingredients in this product are considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information available

## SECTION 12 - ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:**

CAS# 4,4'-Isopropylidenediphenol-Epichlorohydrin polymer:

LC50/96hours, Onchorhynchus mykiss(Rainbow Trout) = 2 mg/l;

EC50/48hours, Daphnia magna=1.8 mg/l

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** No specific data at this time.

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** No evidence is currently available on this product's effects on aquatic life.

This product does contain ingredients that may be hazardous to aquatic organisms.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

## SECTION 14 - TRANSPORTATION INFORMATION

**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

**PROPER SHIPPING NAME:** Non-Regulated Material

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** None

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004):** None

**MARINE POLLUTANT:** None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:**

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

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

This product is not classified as Dangerous Goods, by rules of IATA:

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is not classified as Dangerous Goods by the International Maritime Organization.

## SECTION 15 - REGULATORY INFORMATION

### UNITED STATES REGULATIONS

**SARA REPORTING REQUIREMENTS:** This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

Acute Health: Yes                      Chronic Health: No                      Fire: No                      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** One or more of the ingredients are on the California Proposition 65 lists.

**Warning!** This product contains ingredients known to the State of California to cancer or reproductive harm.

### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:**All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This is considered to be a D2, Materials causing other toxic effects, hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

### INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt
Korean Existing Chemicals List (ECL):	Listed or Exempt
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt
Swiss Giftliste List of Toxic Substances:	Listed or Exempt
U.S. TSCA:	Listed



# **SAFETY DATA SHEET**

**ResoBond 900 Part A**

## **SECTION 16 - OTHER INFORMATION**

**PREPARED BY:** Paul Eigbrett

GHS MSDS CompliancePLUS

**Disclaimer:**

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**End of SDS Sheet**