MATERIAL SAFETY DATA SHEET

SPL 50000

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

Trade Name	**SP-2888® R.G. MINI CARTRIDGE BASE WHITE**		
Product Code	**850-296**		
WHMIS Classification	**D2A, D2B**		
Product Use	Exterior coating for pipelines		
Manufacturer's Name	**SPECIALTY POLYMER COATINGS, INC.**		
Street Address	#101 – 20529 – 62nd Avenue	City, Province/State:	Langley, BC
Postal/Zip Code	V3A 8R4		
Country	CANADA		
Supplier's Name	**SPECIALTY POLYMER COATINGS UAS, INC.**		
Street Address	22503 FM 521 RD	City, Province/State:	Angleton, TX
Postal/Zip Code	77503		
Country	USA		
Telephone Number	281-595-3530		
Emergency Telephone Number	In Canada, call CANUTEC: 1-613-996-6666 In USA, call CHEMTREC: 1-800-424-9300		
MSDS Preparation Date	July 16, 2010		
MSDS Revision Date	May 5, 2014		
MSDS Prepared by	Technical Department of Specialty Polymer Coatings, Inc. with information provided by suppliers of raw materials used in the manufacture of SP-2888® R.G. Mini Cartridge Base White.		
Telephone Number	604-514-9711		

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS #	LD_{50}	LC_{50}
Liquid Epoxy Resin	10-30	25068-38-6	3000 mg/kg Rat Oral	N/AV
Liquid Epoxy Resin	10-30	28064-14-4	4000 mg/kg Rabbit	6000 mg/kg Rat
Titanium Dioxide	5-10	13463-67-7	N/AV	N/AV
Feldspar	15-40	68476-25-5	N/AV	N/AV
Potassium Alumino Silicate	3-7	12001-26-2	N/AV	N/AV
Modified Diglycidyl Ether	5-10	68909-14-8	N/AV	N/AV
Crystalline Silica (Quartz)	3-7	14808-60-7	N/AV	N/AV
Siloxanes and Silicones Reaction Products with Silica	1-5	67762-90-7	N/AV	N/AV
Aliphatic Polyolpolyglycidyl Ether	1-5	37237-76-6	N/AV	N/AV

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry:

Skin Contact..... May cause skin burns. May cause allergic skin reactions.

Skin Absorption ..... Can be absorbed through the skin.

Eye Contact..... Causes eye irritation.

Inhalation..... May cause nose and throat irritation. May cause lung injury and / or burns.

Ingestion..... Harmful if swallowed.

SECTION 4 – FIRST AID MEASURES

Skin Contact..... Wash with water and mild soap for at least 15 minutes. Remove contaminated clothing and wash before re-use. Get medical attention.

Eye Contact..... Flush with water for at least 15 minutes, hold eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention.

Inhalation..... Remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get medical attention.

Ingestion..... Get medical attention **IMMEDIATELY**.

CAUTION---NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
---GET IMMEDIATE MEDICAL ATTENTION FOR ANY SIGNIFICANT OVEREXPOSURE.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable: No.

If yes, under which conditions?.... N/AV.

Means of Extinction..... Dry chemical, foam, carbon dioxide (CO_2), water spray.

Flash Point and Method ..... >100°C (>212°F) SETA.

Upper Flammable Limit (% by volume)..... N/AV.

Lower Flammable Limit (% by volume) ..... N/AV.

Autoignition Temperature..... N/AV.

Explosion Data - Sensitivity to Impact ..... N/AP.

Explosion Data - Sensitivity to Static Discharge.... N/AP.

Hazardous Combustion Products.... Oxides of carbon (CO, CO_2), oxides of nitrogen, aldehydes, acids.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures..... Remove all sources of ignition (flames, sparks, etc.). Wear appropriate safety equipment. Provide adequate ventilation. Soak up spills with inert absorbent materials and place in closed containers. Prevent run-off from reaching storm or sewer drains.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment..... All equipment must be grounded. Avoid inhalation, skin and eye contact. Wear appropriate Personal Protective Equipment as listed in Section 8. Maintain good personal hygiene and wash thoroughly after using, particularly before eating or going on breaks.

Storage Requirements ..... Store in a cool, dry, well-ventilated area. The acceptable shipping and storage temperature range is between 5°C (41°F) and 40°C (104°F). Store away from incompatible materials and all sources of ignition. Keep in a tightly sealed container when not in use.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:

Hazardous Ingredients	CAS #	ACGIH TLV (TWA)
Liquid Epoxy Resin	25068-38-6	N/AV
Liquid Epoxy Resin	28064-14-4	N/AV
Titanium Dioxide	13463-67-7	10 mg/M3
Feldspar	68476-25-5	10 mg/M3 Total Dust
Potassium Alumino Silicate	12001-26-2	3 mg/M3
Modified Diglycidyl Ether	68909-14-8	N/AV
Crystalline Silica (Quartz)	14808-60-7	0.05 mg/M3 Respirable Dust
Siloxanes and Silicones Reaction Products with Silica	67762-90-7	10 mg/M3
Aliphatic Polyolpolyglycidyl Ether	37237-76-6	N/AV

Specific Engineering Controls: Provide general dilution or local exhaust in volume and pattern to keep the TLV of Hazardous Ingredients in Section 8 below acceptable limits. Extra ventilation should be provided in enclosed spaces.

Personal Protective Equipment:

Gloves: Chemical resistant gloves with a long cuff that will overlap the clothing sleeves should be worn when handling this product. The glove / clothing overlaps should be sealed by tape. Check with the glove manufacturer to determine the proper glove type.

Respirator: Wear an appropriate, properly fitted vapor respirator (NIOSH / OSHA approved) during application where vapor / mist are likely to be encountered, e.g. confined spaces and during winter construction or when the substrate is preheated. For outdoor application and areas with adequate ventilation, the use of a respirator is normally not required. Follow the respirator manufacturer's recommendations. Wear a dust respirator for any activity such as sanding or grinding of cured coating.

Eyes: Wear splash proof chemical safety goggles and / or face shield.

Footwear: Wear impervious boots.

Clothing: Long-sleeved clothing is to be worn over regular clothing to cover all exposed areas of arms, legs or torso during mixing and application of the coating. Breathable clothing, such as cotton or disposable coveralls, is recommended.

Other: Emergency eyewash and a shower should be in close proximity, where possible. A barrier cream may be used in conjunction with personal protective equipment as an additional safeguard against skin contact.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Odor and Appearance	Viscous liquid, white color.
Odor Threshold (ppm)	N/AV.
Specific Gravity (water=1)	1.41
Vapor Density (air=1)	N/AV.
Vapor Pressure (mmHg)	N/AV.
Evaporation Rate (butyl acetate=1)	N/AV.
Boiling Point	>300°C (>572°F).
Freezing Point	N/AP.
pH	N/AV.
Coefficient of Water/oil Distribution	N/AV.
Solubility in Water [20°C (68°F)]	Negligible.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Yes.
If no, under which conditions?	N/AP.
Incompatibility With Other Substances	Yes.
If yes, under which conditions?	Oxidizing agents, acids, bases, amines.
Reactivity, and under what conditions	Elevated temperatures.
Hazardous Decomposition Products	Oxides of carbon (CO, CO_2), oxides of nitrogen, aldehydes, acids.

SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure:

Skin Contact.....	May cause skin burns. May cause allergic skin reactions.
Eye Contact.....	Causes eye irritation.
Inhalation.....	May cause nose and throat irritation. May cause lung injury and / or burns.
Ingestion.....	Harmful if swallowed.
Effects of Chronic Exposure.....	May cause lung damage, skin sensitization, dermatitis, and respiratory sensitization. Excessive inhalation of respirable crystalline silica dust may cause lung disease, silicosis, with symptoms of cough, shortness of breath, and reduced pulmonary function. After installation and drying, activities such as grinding or sanding of material may cause dust concentration to be above the TLV limit for crystalline quartz.
Irritancy of Product	Causes eye irritation. May cause nose and throat irritation.
Skin Sensitization.....	Refer to Effects of Chronic Exposure.
Respiratory Sensitization	Refer to Effects of Chronic Exposure.
Carcinogenicity – IARC.....	IARC has determined that crystalline silica is carcinogenic to humans (Group 1) if it is inhaled in the form of quartz or cristobalite (respirable dust) from occupational sources.
Carcinogenicity – ACGIH.....	ACGIH classifies crystalline silica, quartz (respirable dust) as a suspected human carcinogen (A2).
Reproductive Toxicity.....	None known.
Teratogenicity	None known.
Embryotoxicity.....	N/AV.
Mutagenicity	None known.
Name of Synergistic Products/Effects ...	None known.

SECTION 12 – ECOLOGICAL INFORMATION

No Data is available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal... Dispose of according to Federal, Provincial, and Municipal regulations in Canada and Federal, State, and County regulations in the United States of America.

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information: NOT REGULATED.

TDG:

PIN:	N/AP.
Shipping Name:	N/AP.
Class:	N/AP.
PG:	N/AP.
IMDG:	N/AP.
ICAO:	N/AP.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification..... **D2A, D2B**

CEPA ..... All of the ingredients of this product are listed on the DSL.
TSCA ..... All of the ingredients of this product are on the TSCA Inventory.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 – OTHER INFORMATION

NOTE: While Specialty Polymer Coatings, Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Specialty Polymer Coatings, Inc. assumes legal responsibility. The data is offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, Provincial / State, and Municipal / County laws and regulations.

ABBREVIATIONS USED IN PREPARING THIS MSDS

% - Percent # - Number < - Less Than > - Greater Than @ - At

ACGIH	American Conference of Governmental Industrial Hygienists
CANUTEC	The Canadian Transport Emergency Centre of the Department of Transport
C	Celsius
CAS #	CAS Registry Number
CEIL	Ceiling Limit
CEPA	Canadian Environmental Protection Act, 1999
CPR	Canadian Controlled Products Regulations
DOT	Department of Transportation (U.S.)
DSL	Domestic Substances List
F	Fahrenheit
FP	Flash Point
g/kg	Grams/kilogram
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMO	International Maritime Organization
IMDG	International Maritime Dangerous Goods Code.
Kg	Kilogram
Lb/gal	Pounds per Gallon
LEL	Lower Explosive Limit
LC_{50}	Lethal Concentration (50% Death)
LD_{50}	Lethal Dosage (50% Death)
ml/kg	Millilitres/kilogram
mg/L	Milligrams per Litre
mg/M3	Milligrams per Cubic Metre
mmHg	Millimetres of Mercury
N/AP	Not Applicable
N/AV	Not Available
N/D	Not Determined
NFPA HAZARD RATING	4 - Extreme, 3 - High, 2 - Moderate, 1 - Slight, 0 - None, X – Blank
NIOSH	National Institute of Occupational Safety & Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PG	Packing Group
PMCC	Pensky-Martens Closed Cup
ppm	Parts per million
SARA	Superfund Amendments & Reauthorization Act (1986)
SETA	Setaflash Closed Cup Tester
STEL	Short-Term Exposure Limit
TDG	Transportation of Dangerous Goods Act and Pursuant Regulations
TLV	Threshold Limit Value
TWA	Time Weighted Average
TSCA	Toxic Substances Control Act
WHMIS	Workplace Hazardous Materials Information System

End of Material Safety Data Sheet.