

MATERIAL SAFETY DATA SHEET

WHMIS HAZARD: D2B, D2A

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Product Identifier..... **SP-2888® R.G. SPRAY GRADE BASE WHITE**

Product Code..... **850-281**

Product Use Exterior coating for pipelines.

Manufacturer's Name..... **GALAXY TOLLING INC.**

Street Address 148 Mohawk Street, Unit G City, Province / State: Brantford, ON

Postal / Zip Code..... N3S 7G5 Country: CANADA

Supplier's Name..... **SPECIALTY POLYMER COATINGS USA, INC.**

Street Address 22503 FM 521 City, Province / State: Angleton, TX

Postal / Zip Code..... 77515 Country: USA

24 HR. TELEPHONE NUMBER CHEMTREC: 1-800-424-9300

INFORMATION NUMBER..... 1-281-595-3530

SECTION 2 – HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>C.A.S. #</u>	<u>Lethal Dose 50% Species & route</u>	<u>Lethal Conc. 50% Species & route</u>	<u>TLV TWA-ACGIH</u>
Liquid Epoxy Resin	10-30	25068-38-6	3000 mg/kg Rat Oral	N/AV	N/AV
Liquid Epoxy Resin	10-30	28064-14-4	4000 mg/kg Rabbit	6000 mg/kg Rat	N/AV
Titanium Dioxide	5-10	13463-67-7	N/AV	N/AV	10 mg/M3
Feldspar	15-40	68476-25-5	N/AV	N/AV	10 mg/M3 Total Dust
Potassium Alumino Silicate	3-7	12001-26-2	N/AV	N/AV	3 mg/M3
Modified Diglycidyl Ether	5-10	68909-14-8	N/AV	N/AV	N/AV
Crystalline Silica (Quartz)	3-7	14808-60-7	N/AV	N/AV	0.05 mg/M3 Respirable Dust
Siloxanes and Silicones Reaction Products with Silica	1-5	67762-90-7	N/AV	N/AV	10 mg/M3
Aliphatic Polyolpolyglycidyl Ether	1-5	37237-76-6	N/AV	N/AV	N/AV

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

TSCA: All the ingredients of this product are on the TSCA Inventory.

SECTION 3 – PHYSICAL DATA

Physical State	Liquid.
Odour and Appearance.....	Viscous liquid, white colour.
Odour Threshold (ppm).....	N/AV
Vapour Pressure (mm/Hg)	N/AV
Vapour Density (air=1)	N/AV
Evaporation Rate (butyl acetate=1).....	N/AV
Boiling Point	>300°C (572°F)
Freezing Point	N/AP
pH.....	N/AV
Specific Gravity (water=1).....	1.55
Coefficient of water/oil distribution.....	N/AV
Solubility in water (20°C / 68°F)	Negligible.

SECTION 4 – FIRE AND EXPLOSION

Flammability	Will support combustion in fire.
Flammability: If Yes, under which conditions? ...	Excessive heat, sparks, and open flame. In contact with incompatible substances. Surrounding fire.
Means of extinction.....	Dry chemical, foam, carbon dioxide, water spray.
Special Procedures	Firefighters should wear the usual protective gear. Use Self-contained Breathing Apparatus.
Flash Point and Method	>100°C (212°F) SETA
Upper Flammability Limit (% by volume).....	N/AV
Lower Flammability Limit (% by volume)	N/AV
Autoignition Temperature	N/AV
Hazardous Combustion Products	Oxides of Carbon (CO, CO ₂), Oxides of Nitrogen, Aldehydes, Acids.
Explosion Data:	
Sensitivity to impact.....	N/AP
Sensitivity to Static Discharge	N/AP

SECTION 5 – REACTIVITY DATA

Chemical Stability	Yes. Product is stable in non-emergency conditions.
Incompatibility with other substances	Yes. Oxidizing agents, acids, bases, amines.
Reactivity and under what conditions	Elevated temperatures.
Hazardous Decomposition Products	Oxides of Carbon, Oxides of Nitrogen, Aldehydes, and acids.

SECTION 6 – TOXICOLOGICAL PROPERTIES

Route of Entry	Skin, eyes, inhalation, ingestion.
Effects of Acute Exposure:	
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.
Effects of Chronic Exposure to Product.....	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.
Exposure Limits	Refer to Section 2 – Hazardous Ingredients.
Irritancy of Product	Refer to Effects of Acute Exposure.
Carcinogenicity	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. NTP classifies respirable crystalline silica (respirable dust) as “known to be a human carcinogen”. ACGIH classifies crystalline silica, quartz, (respirable dust) as a suspected human carcinogen (A2).
Teratogenicity.....	None Known.
Reproductive Toxicity.....	None Known.
Mutagenicity.....	None Known.
Synergistic Products	None Known.

SECTION 7 – PREVENTATIVE MEASURES**Personal Protective Equipment:**

- Gloves Chemical resistant gloves with a long cuff 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 vapour respirator (NIOSH / OSHA approved) during application where vapour / 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. A dust respirator should be worn 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 the stated protective measures, as an additional safeguard against skin contact.
- Engineering Controls ... Mechanical ventilation, both dilution and exhaust may be utilized to keep exposure below the TLV. Extra ventilation should be provided in enclosed spaces.
- Leak and Spill Procedure Remove all sources of ignition. Wear appropriate safety equipment as listed above. Soak up spills with inert absorbent materials and place in closed containers. Prevent run-off from reaching storm or sewer drains.
- 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.
- Handling Procedures and Equipment..... All equipment must be grounded. Keep container closed when not in use. Wear appropriate personal protective equipment. Maintain good personal hygiene, wash thoroughly after using, particularly before eating or going on breaks.
- Storage Requirements Store in a cool, dry, well-ventilated area away from incompatible materials and all sources of ignition. Keep in a tightly sealed container.

SECTION 8 – SHIPPING INFORMATION

PIN/Class/Pkg.Grp. N/AP
Proper Shipping Name NOT REGULATED

SECTION 9 – FIRST AID MEASURES

Specific Measures:

Inhalation..... Remove to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Get Medical attention.
Ingestion Get Medical attention **IMMEDIATELY**.
Eye Contact Flush with water for at least 15 minutes, hold eyelids apart to ensure complete irrigation of all eye and lid tissue, and get Medical attention.
Skin Contact..... Wash with water and mild soap for at least 15 minutes. Remove contaminated clothing and wash before re-use. Get Medical attention.

CAUTION---NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 10 – PREPARATION DATE OF 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. Spray Grade Base White.
Phone Number..... 604-514-9711
Preparation Date... May 19, 1998
Revision Date December 2, 2009

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			
C.....	Centigrade			
C.A.S. #.....	Chemical Abstract Number			
CEIL	Ceiling Limit			
CEPA	Canadian Environmental Protection Agency			
CFR.....	Code of Federal Regulations			
DOT	Department of Transportation			
DSL.....	Domestic Substance List			
Derm-LD50.....	Dermal Lethal Dose - 50% Death			
F	Fahrenheit			
FP	Flash Point			
g/kg	Grams/kilogram			
HMIS	Hazardous Material Information System			
IARC.....	International Agency for Research on Cancer			
IATA.....	International Air Transportation Authority			
IMDG.....	International Marine Dangerous Good			
Inhal-LC50.....	Inhalation Lethal Concentration - 50% Death			
Kg	Kilogram			
Lb/gal.....	Pounds per Gallon			
LEL	Lower Explosion Limit			
Lethal Conc.....	Lethal Concentration (50% Death)			
Lethal Dose	Lethal Dosage (50% Death)			
ml/kg	Millilitres/kilogram			
mg/L.....	Milligrams per Litre			
mg/M3.....	Milligrams per Meter Cubed			
mm/Hg	Millimeters 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			
Oral-LD50.....	Oral Lethal Dose-50% Death			
OSHA	Occupational Safety and Health Administration			
PEL	Permissible Exposure Limit			
PIN.....	Product Identification Number			
Pkg.Grp.....	Packing Group			
PMCC	Pensky-Martens Closed Cup			
ppm	Parts per million			
SARA.....	Superfund Amendments & Reauthorization Act (1986)			
SETA	Setaflash Closed 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 Material Information System			