MATERIAL SAFETY DATA SHEET

WHMIS HAZARD: **D2A, D2B**

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Product Identifier ..... **SP-3888® SPRAY GRADE BASE GREY**

Product Code..... **850-249**

Product Use ..... EXTERIOR COATING FOR PIPELINES.

Manufacturer's Name ..... **SPECIALTY POLYMER COATINGS, INC.**

Street Address ..... #104 - 20529 - 62nd Avenue City/Province: Langley, B.C.

Postal Code V3A 8R4

Emergency Telephone Number..... CANUTEC: (613) 996-6666

INFORMATION NUMBER..... (604) 514-9711

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

Street Address ..... #104 - 20529 - 62nd Avenue City/Province: Langley, B.C.

Postal Code V3A 8R4

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SECTION 2 – HAZARDOUS INGREDIENTS

Hazardous Ingredients	**%**	**C.A.S. #**	**Lethal Dose 50% Species & route**	**Lethal Conc. 50% Species & route**	**TLV TWA-ACGIH**
Crystalline Silica (Quartz)	15-40	14808-60-7	N/AV	N/AV	0.05 mg/M3 Respirable Dust
Propoxylated Glyerol-Polyglycidyl Ether	1-5	37237-76-6	7400 mg/kg Rat Oral	N/AV	N/AV
Cyclohexanedimethanol-Diglycidyl Ether	1-5	14228-73-0	2500 mg/kg Rat Oral	N/AV	N/AV
Modified Diglycidyl Ether	1-5	No1	N/AV	N/AV	N/AV
Potassium Alumino Silicate	3-7	12001-26-2	N/AV	N/AV	3 mg/M3
Epoxy Resin	15-40	9072-62-2	>5000 mg/kg Rat Oral >6000 mg/kg Rat Skin	N/AV	N/AV
Epoxy Resin	10-30	25085-99-8	>5000 mg/kg Rat Oral 20,000 mg/kg Rabbit Skin	N/AV	N/AV
Titanium Dioxide	3-7	13463-67-7	N/AV	N/AV	10 mg/M3

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

SECTION 3 – PHYSICAL DATA

Physical State	Liquid.
Odour and Appearance	Grey, viscous liquid.
Odour Threshold (ppm)	N/AV
Vapour Pressure (mm/Hg)	<1.00 @ 20°C (68°F)
Vapour Density (air=1)	N/AV
Evaporation Rate (butyl acetate=1)	N/AV
Boiling Point	>150°C (>302°F)
Freezing Point	N/AP
pH	N/AV
Specific Gravity (water=1)	1.57
Coefficient of water/oil distribution	N/AV
Solubility in water (20°C / 68°F)	Negligible.

SECTION 4 – FIRE AND EXPLOSION

Flammability	Does not burn readily.
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	>93.3°C (>199.94°F) PMCC.
Upper Flammability Limit (% by volume)	N/AV
Lower Flammability Limit (% by volume)	N/AV
Autoignition Temperature	N/AV
Hazardous Combustion Product	Oxides of Carbon (CO, CO2), 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.
Chemical Stability.....	No. Avoid heat, flames, sparks, ignition sources, strong acids or bases in bulk.
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, 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 Chronic Exposure to Product.
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).

SECTION 6 – TOXICOLOGICAL PROPERTIES (cont.)

Teratogenicity	Not reported.
Reproductive Toxicity.....	N/AV
Mutagenicity	N/AV
Synergistic Products.....	N/AV

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.

SECTION 7 – PREVENTATIVE MEASURES (cont.)

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

Proper Shipping Name .... NOT REGULATED

CLASS/PIN/Pkg.Grp ..... N/AP

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-3888® Spray Grade Base Grey.

Phone Number..... (604) 514-9711

Preparation Date.... July 17, 1998

Revision Date..... November 15, 2007

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	Packaging 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