MATERIAL SAFETY DATA SHEET

WHMIS HAZARD: D2A, D2B, E

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Product Identifier SP-3888® HARDENER

Product Use **850-252**

Product Use Curing Agent for SP-3888® Brush Grade and Spray Grade Base Grey.

Manufacturer's Name SPECIALTY POLYMER COATINGS, INC.

Street Address #101 – 20529 – 62nd Avenue City/Province: Langley, BC

Postal Code V3A 8R4

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

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

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

Postal Code V3A 8R4

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

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

SECTION 2 – HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>C.A.S. #</u>	Lethal Dose 50% Species & route	Lethal Conc 50% Species & route	TLV TWA-ACGIH
1,2 Diaminocyclo Hexane	10-30	694-83-7	N/AV	N/AV	N/AV
Benzyl Alcohol	10-30	100-51-6	1230 mg/kg Rat Oral N/AV 2000 mg/kg Rabbit Dermal		N/AV
Salicylic Acid	0.1-0.9	69-72-7	891 mg/kg Rat Oral >900 mg/m/M3/1H 480 mg/kg Mouse Oral Rat Inhalation		N/AV
Aminoethylpiperazine	10-30	140-31-8	2140 mg/kg Rat Oral 880 mg/kg Rabbit Dermal	N/AV	N/AV
Nonylphenol	5-10	25154-52-3	1231 mg/kg Mouse Oral 2140 mg/kg Rabbit Dermal	N/AV	N/AV
Bisphenol A	10-30	80-05-7	2230 mg/kg Rat Oral 3000 mg/kg Rabbit Dermal	N/AV	N/AV
Benzyldimethylamine	1-5	103-83-3	265 mg/kg Rat Oral 1660 mg/kg Rabbit Dermal	1800 mg/M3/2H/Mouse	N/AV
Diethylene Triamine	1-5	111-40-0	1080 mg/kg Rat Oral 1090 mg/kg Rabbit Dermal	N/AV	1 ppm Skin
Cycloaliphatic-Aromatic Polyamine Registry #4268	1-5	Trade Secret	N/AV	N/AV	N/AV

SECTION 2 – HAZARDOUS INGREDIENTS (cont.)

<u>Hazardous Ingredients</u>	<u>%</u>	<u>C.A.S. #</u>	Lethal Dose 50% Species & route	Lethal Conc 50% Species & route	TLV TWA-ACGIH
Hexamethylenediamine	0.1-1.0	124-09-4	750 mg/kg Rat Oral 1110 mg/kg Rabbit Dermal	N/AV	0.5 ppm
Polyethylenepolyamines	3-7	29320-38-5	1500 mg/kg Rat Oral	N/AV	N/AV
Tetraethylenepentamine	0.1-1.0	112-57-2	1500 mg/kg Rat Oral	N/AV	N/AV

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	Amber, 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	N/AV
Freezing Point	N/AV
pH	Alkaline.
Specific Gravity (water=1)	1.06 @ 25°C (77°F)
Coefficient of water/oil distribution	N/AV
Solubility in water (20°C / 68°F)	Slight.

SECTION 4 – FIRE AND EXPLOSION

Flammability Not flammable as per WHMIS.

Flammability: If Yes, under which conditions?.... Excessive heat, sparks and open flame.

Surrounding fire.

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/AP

Hazardous Combustion Products Oxides of Carbon, Oxides of Nitrogen,

Carboxylic acids, Aldehydes.

Explosion Data:

SECTION 5 – REACTIVITY DATA

Incompatibility with other substances..... Yes. Oxidizing agents (perchlorates, nitrates), acids.

Reactivity and under what conditions..... Contact with incompatible substances.

Hazardous Decomposition Products Refer to Section 4 – Hazardous Combustion Products.

SECTION 6 – TOXICOLOGICAL PROPERTIES

Route of Entry Skin, eyes, inhalation, ingestion.

Effects of Acute Exposure:

Skin Contact...... May cause allergic skin reaction, corrosive to skin, causes burns, severe irritation.

Skin Absorption May be absorbed by the skin.

Eye Contact Corrosive to the eyes.

Inhalation May affect central nervous system. Vapours may cause respiratory tract irritation.

Ingestion...... Harmful if swallowed. Headaches, nausea, vomiting. May cause bleeding of the

gastrointestinal tract. Ingestion of salicylic acid may cause increased breathing

rate, metabolic disturbances, ringing in ears, and diminished vision.

Effects of Chronic Exposure to Product Repeated or prolonged contact with skin may cause allergic

reaction or sensitization, adverse skin effects, adverse

respiratory effects. Potential sensitizer.

Irritancy of Product Refer to Effects of Acute Exposure.

Carcinogenic Effects None known.

Teratogenicity Negative.

Reproductive Effects...... N/AV

Mutagenicity Negative.

Synergistic Products...... N/AV

SECTION 7 – PREVENTATIVE MEASURES

Persona	l Protective	Equi	pment:
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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: UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

(Cycloaliphatic Polyamines)

Class: 8

Pkg.Grp.:

Mode: Ground (TDG) or Air (IATA) or Ocean (IMDG)

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® Hardener.

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

Preparation Date.... July 17, 1998

Revision Date...... March 27, 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		
		Chemical Abstract Nur	nber	
CEIL		•		
		Canadian Environment		
		Code of Federal Regul		
		Department of Transpo		
		Domestic Substance Li		
		Dermal Lethal Dose - :	50% Death	
F				
FP				
g/kg		Hazardous Material In:	formation System	
		International Agency f		
		International Air Trans		
		International Marine D		
		Inhalation Lethal Conc		
Kg			entration - 50% Death	
-		Pounds per Gallon		
		Lower Explosion Limi	t	
		Lethal Concentration (
		Lethal Dosage (50% D		
		Millilitres/kilogram	,	
_		Milligrams per Litre		
•		Milligrams per Meter (Cubed	
•		Millimeters of Mercury		
N/AP		Not Applicable		
N/AV		Not Available		
N/D		Not Determined		
			2 - Moderate, 1 - Slight, 0 -	
			ccupational Safety & Health	1
		National Toxicology P		
		Oral Lethal Dose-50%		
		-	nd Health Administration	
		Permissible Exposure		
		Product Identification	Number	
Pkg.Grp		Packing Group	1.0	
		Pensky-Martens Close	d Cup	
		Parts per million		006)
SARA		_	ts & Reauthorization Act (1	986)
SETA		Setaflash Closed Teste		
STEL		Short Term Exposure I		D
TDG TLV		Transportation of Dang Threshold Limit Value	gerous Goods Act and Pursu	iant Regulations
TWA		Time Weighted Average		
TSCA		Toxic Substances Cont		
WHMIS			Material Information System	m
** 111VII.3	•••••	workplace Hazardous	iviateriai information system	.11