MATERIAL SAFETY DATA SHEET

WHMIS HAZARD: D2A, D2B, E

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Product Use Curing Agent for Nap-Gard® 7-1862 Grey Fast Cure Repair Base.

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

Postal Code V3A 8R4

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

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

Supplier's Name...... **DUPONT POWDER COATINGS U.S.A., INC.**

Zip Code...... 77041

Emergency Telephone Number.... CHEMTREC: (1-800) 424-9300

INFORMATION NUMBER...... (713) 939-4000

SECTION 2 – HAZARDOUS INGREDIENTS

Hazardous Ingredients	<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 2000 mg/kg Rabbit Dermal	N/AV	N/AV
Modified Bisphenol Epoxy	15-40	SLC024	N/AV	N/AV	N/AV
Salicylic Acid	0.1-0.9	69-72-7	891 mg/kg Rat Oral 480 mg/kg Mouse Oral >10,000 mg/kg Rabbit Dermal	>900 mg/m/M3/1H Rat Inhalation	N/AV
Aminoethylpiperazine	10-30	140-31-8	2140 mg/kg Rat Oral 880 mg/kg Rabbit Dermal	N/AV	N/AV
Nonyl Phenol	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
Crystalline Silica (Quartz)	30-50	14808-60-7	N/AV	N/AV	0.05 mg/M3 Respirable Dust
Carbon Black	0.1-0.5	133-86-4	>8000 mg/kg Rat Oral	N/AV	3.5 mg/M3

SECTION 2 – HAZARDOUS INGREDIENTS (cont.)

Hazardous Ingredients	<u>%</u>	<u>C.A.S. #</u>	Lethal Dose 50% Species & route	Lethal Conc. 50% Species & route	TLV TWA-ACGIH
Diethylenetriamine	1-5	111-40-0	1080 mg/kg Rat Oral 1090 mg/kg Rabbit Dermal	N/AV	1 ppm Skin
Hexamethylenediamine	0.1-1	129-09-4	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.

Slight.

SECTION 3 – PHYSICAL DATA

Physical State Liquid. Odour and Appearance..... Beige, viscous liquid. N/AV Odour Threshold (ppm)..... 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)..... 1.36 @ 25°C (77°F) Coefficient of water/oil distribution..... N/AV

Solubility in water (20°C / 68°F)......

SECTION 4 – FIRE AND EXPLOSION

Flammability...... Not flammable as per WHMIS.

Flammability: If Yes, under which conditions?.... 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/AP

Hazardous Combustion Products Oxides of Carbon, Oxides of Nitrogen, Carboxylic acids,

Aldehydes.

Explosion Data:

Sensitivity to impact...... Protect against physical damage.

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... May cause lung damage, skin sensitization, dermatitis or

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.

Carcinogenic Effects.... 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...... Negative.

Reproductive Effects.... N/AV

Mutagenicity...... Negative.

Synergistic Products..... N/AV

SECTION 7 – PREVENTATIVE MEASURES

Personal Protective Equipmen	t:
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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 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: ALKYLAMINES, NO.S.

(Cycloaliphatic Polyamines)

Class:

Pkg.Grp.:

Mode: Ground (TDG)

PIN: UN2735

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

(Cycloaliphatic Polyamines)

Class: 8

Pkg.Grp.:

Mode: 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 Nap-Gard® 7-1862 Grey Fast

Cure Repair Hardener.

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

Preparation Date.... October 10, 2001

Revision Date...... December 11, 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	f Governmental Industria	l Hygienists		
C						
		Chemical Abstract Nun	nber			
CEIL		Ceiling Limit				
CEPA		. Canadian Environmental Protection Agency				
CFR		. Code of Federal Regulations				
		. Department of Transportation				
_ ~		Domestic Substance Lis	• •			
		Dermal Lethal Dose - 5	0% Death			
F						
FP						
g/kg						
		Hazardous Material Inf				
		International Agency for				
		International Air Transp				
		International Marine Da				
		Inhalation Lethal Conce	entration - 50% Death			
Kg						
		Pounds per Gallon				
		Lower Explosion Limit				
		Lethal Concentration (5				
		Lethal Dosage (50% De	eatn)			
		Milliamers per Litre				
-		Milligrams per Litre	1 1			
		Milligrams per Meter C Millimeters of Mercury				
N/AP						
N/AV						
N/D						
			- Moderate, 1 - Slight, 0	None V Plank		
			cupational Safety & Heal			
		National Toxicology Pr		tii		
		Oral Lethal Dose-50%				
		Occupational Safety and				
		Permissible Exposure L				
		Product Identification N				
Pkg.Grp						
C I		Pensky-Martens Closed	Cup			
ppm		•	- ·· r			
SARA			s & Reauthorization Act (1986)		
SETA		Setaflash Closed Tester		,		
STEL		Short Term Exposure L				
TDG		*	erous Goods Act and Purs	suant Regulations		
TLV		Threshold Limit Value		-		
TWA		Time Weighted Averag	e			
TSCA		Toxic Substances Contr				
WHMIS		Workplace Hazardous I	Material Information Syst	em		