

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier **NAP-GARD[®] 7-1854 CLEAR FAST CURE REPAIR HARDENER**

Product Code..... 851-213

Product Use Curing agent for Nap-Gard[®] 7-1854 Gold Fast Cure Repair Base.

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

24 hour Emergency Telephone Number CANUTEC: 613-996-6666

INFORMATION NUMBER..... 604-514-9711

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

Street Address 9800 Genard Road City/Province/State: Houston, TX

Postal/Zip Code..... 77041

Country..... USA

24 hour Emergency Telephone Number CHEMTREC: 1-800-424-9300

INFORMATION NUMBER..... 713-939-4000

MSDS Preparation Date.... March 20, 2003

MSDS Revision Date January 22, 2013

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[®] 7-1854 Clear Fast Cure Repair Hardener.

Telephone Number..... 604-514-9711

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS #	Lethal Dose 50% Species & route	Lethal Conc. 50% Species
Benzyl Alcohol	15-40	100-51-6	1230 mg/kg Rat Oral 2000 mg/kg Rabbit Dermal	N/AV
Benzene-1,3-Dimethaneamine	10-30	1477-55-0	930 mg/kg Rat Oral 2000 mg/kg Rabbit Dermal	700 ppm/1H/Rat
Salicylic Acid	1-5	69-72-7	891 mg/kg Rat Oral 480 mg/kg Mouse Oral	>900 mg/M3/1H Rat Inhalation
4,4'-Methylenebis(cyclohexanamine)	1-5	1761-71-3	N/AV	400 mg/M3/4H
1,2-Diaminocyclo Hexane	10-30	694-83-7	N/AV	N/AV

SECTION 3 – HAZARDS IDENTIFICATION

- Route of Entry Skin, eyes, inhalation, ingestion.
- Skin Contact May cause allergic skin reaction. Severe skin irritant.
- Skin Absorption Product is absorbed through skin. May cause nausea, headache, and general discomfort.
- Eye Contact Burns of the eyes may cause blindness.
- Inhalation May cause respiratory tract irritation.
- Ingestion Harmful if swallowed. May cause death unless treated promptly.

SECTION 4 – 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 5 – FIRE FIGHTING MEASURES

Flammable: Not flammable as per WHMIS.

Flammable: If Yes, under which conditions? Excessive heat, sparks and open flame.
Surrounding fire.

Means of Extinction Water spray, dry chemical, foam and Carbon Dioxide.

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 Flammable Limit (% by volume) N/AV

Lower Flammable Limit (% by volume) N/AV

Autoignition Temperature N/AV

Explosion Data - Sensitivity to Impact N/AV

Explosion Data - Sensitivity to Static Discharge N/AV

Hazardous Combustion Products Oxides of Carbon (CO, CO₂), Oxides of Nitrogen, Aldehydes.

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 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)
Benzyl Alcohol	100-51-6	N/AV
Benzene-1,3-Dimethaneamine	1477-55-0	0.1 mg/M3 Cel
Salicylic Acid	69-72-7	N/AV
4,4'-Methylenebiscyclohexanamine	1761-71-3	N/AV
1,2-Diaminocyclo Hexane	694-83-7	N/AV

Engineering Controls: Provide general dilution or local exhaust in volume and pattern to keep TLV of Hazardous Ingredients in Section 2 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 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. 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.
Odour and Appearance.....	Ammoniacal. Strong amine odour. Clear liquid.
Odour Threshold (ppm).....	N/AV
Specific Gravity (water=1).....	1.07 @ 25°C (77°F).
Vapour Density (air=1)	N/AV
Vapour Pressure (mm/Hg)	N/AV
Evaporation Rate (butyl acetate=1).....	N/AV
Boiling Point	N/AV
Freezing Point	N/AV
pH.....	N/AV
Coefficient of Water/oil Distribution.....	N/AV
Solubility in Water [20°C (68°F)].....	Insoluble.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Yes. Product is stable under non-emergency conditions.
Incompatibility with other substances....	Yes. Avoid contact with acids, oxidizing agents, Sodium or Calcium Hypochlorite.
Reactivity and under what conditions	Avoid heat, open flame and all ignition sources. Avoid contact with incompatible substances.
Hazardous Decomposition Products	Carbon Monoxide, Carbon Dioxide, Nitrogen, Oxides, Aldehydes.

SECTION 11 – TOXICOLOGICAL INFORMATION

Route of Entry Skin, eyes, inhalation, ingestion.

Effects of Acute Exposure:

Skin Contact..... May cause allergic skin reaction. Severe skin irritant.

Skin Absorption Product is absorbed through skin. May cause nausea, headache, and general discomfort.

Eye Contact Burns of the eyes may cause blindness.

Inhalation..... May cause respiratory tract irritation.

Ingestion..... Harmful if swallowed. May cause death unless treated promptly.

Effects of Chronic Exposure Adverse eye, skin, and respiratory effects. Sensitization may occur on prolonged contact with skin.

Irritancy of Product Refer to Effects of Acute Exposure.

Skin Sensitization..... Refer to Effects of Acute Exposure.

Respiratory Sensitization Refer to Inhalation.

Carcinogenicity Not listed as a carcinogen the IARC, ACGIH.

Reproductive Toxicity.... Salicylic acid has been shown to cause embryotoxic effect in laboratory animals.

Teratogenicity Salicylic acid has been shown to cause teratogenic effects in laboratory animals.

Embryotoxicity..... Refer to Reproductive Toxicity.

Mutagenicity N/AV

Name of Synergistic Products/Effects ... N/AV

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:

PIN: UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.
(Cycloaliphatic Amines)

Class: 8

PG: III

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

SECTION 15 – REGULATORY INFORMATION

WHMIS D2B, E

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 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		Controlled Products Regulations		
DOT		Department of Transportation (U.S.)		
DSL		Domestic Substances List		
Derm-LD50		Dermal Lethal Dose - 50% Death		
F		Fahrenheit		
FP		Flash Point		
g/kg		Grams/kilogram		
HMIS		Hazardous Materials Identification System		
IARC		International Agency for Research on Cancer		
IATA		International Air Transport Association		
ICAO		International Civil Aviation Organization		
IMDG		International Maritime Dangerous Goods Code		
Inhal-LC50		Inhalation Lethal Concentration - 50% Death		
Kg		Kilogram		
Lb/gal		Pounds per Gallon		
LEL		Lower Explosive 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 Cubic Metre		
mm/Hg		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		
Oral-LD50		Oral Lethal Dose-50% Death		
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.