



SAFETY DATA SHEET

SP-2888® R.G. Spray Cartridge Hardener

Date of Preparation: March 26, 2019

Section 1: IDENTIFICATION

Product Name: SP-2888® R.G. Spray Cartridge Hardener
Product Identifier: PART "B" HARDENER
Product Code: 850-299
Detail: Epoxy/Urethane. Blue.
Product Use: Curing agent for SP-2888® R.G. Spray Cartridge Base.
Restrictions on Use: Not available.
Manufacturer/Supplier: Specialty Polymer Coatings, Inc.
48 Bury Court
Brantford, ON, N3S 0B1
Canada
24 Hour Emergency Phone: In Canada, call CANUTEC: 1-613-996-6666
In USA, call CHEMTREC: 1-800-424-9300
Date of Preparation of SDS: March 26, 2019

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Acute Toxicity - Oral, Category 4
Acute Toxicity - Dermal, Category 4
Acute Toxicity - Inhalation, Category 4
Skin Corrosion, Category 1B
Eye Damage, Category 1
Sensitization - Skin, Category 1
Carcinogenicity, Category 1A
Reproductive Toxicity, Category 2
Specific Target Organ Toxicity (Single Exposure), Category 3 - Respiratory Irritation
Specific Target Organ Toxicity (Repeated Exposure), Category 1

LABEL ELEMENTS

Hazard

Pictogram(s):



Signal Word: Danger

Hazard

Statements:

Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause cancer.
Suspected of damaging fertility or the unborn child.



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May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust, mist, vapours, or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection and face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER or doctor.
Rinse mouth.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Benzenemethanol	Benzyl alcohol	100-51-6	9 - 12
1-Piperazineethanamine	N-(2-Aminoethyl)piperazine	140-31-8	5 - 8
1,3-Benzenedimethanamine	Not available.	1477-55-0	3 - 5
Quartz (SiO2)	Quartz	14808-60-7	3 - 5
Phenol, 4,4'-(1-methylethylidene)bis-	Bisphenol A	80-05-7	3 - 5



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1,2-Ethanediamine, N1-(2-aminoethyl)-	Diethylenetriamine	111-40-0	2 - 4
Phenol, 4-(1,1-dimethylethyl)-	p-tert-Butylphenol	98-54-4	2 - 4
Phenol, 4-nonyl-, branched	Not available.	84852-15-3	2 - 4
1,2-Cyclohexanediamine	1,2-Diaminocyclohexane	694-83-7	1 - 3
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	0.8 - 1.2

Section 4: FIRST-AID MEASURES

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: Harmful if inhaled. May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO₂) dust has occurred. Coughing and irritation of throat are early symptoms.

Eye Contact: If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Acute and delayed symptoms and effects: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Acute and delayed symptoms and effects: Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Ingestion: If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: Harmful if swallowed. Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen.



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General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Combustible material: may burn but does not ignite readily. When heated, vapours may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. Runoff may pollute waterways.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Do not get water inside containers. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discolouration of tank. ALWAYS stay away from tanks engulfed in fire.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: This material is not sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Small Fire: Dry chemical, CO₂ or water spray.

Large Fire: Dry chemical, CO₂, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon. Oxides of nitrogen. Ammonia.

Protection of Firefighters: TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.



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Section 6: ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.
- Environmental Precautions:** Prevent entry into waterways, sewers, basements or confined areas.
- Methods for Containment:** Stop leak if you can do it without risk.
- Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Other Information:** See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:
Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, mist, vapours, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. See Section 8 for information on Personal Protective Equipment.

Storage:
Store in a well-ventilated place. Keep container tightly closed. Store locked up. The acceptable shipping and storage temperature range is between 5 °C (41 °F) and 50 °C (122 °F). Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines
Component**

- Benzyl alcohol [CAS No. 100-51-6]
ACGIH: No TLV established.
OSHA: No PEL established.
- N-(2-Aminoethyl)piperazine [CAS No. 140-31-8]
ACGIH: No TLV established.
OSHA: No PEL established.
- 1,3-Benzenedimethanamine [CAS No. 1477-55-0]
ACGIH: 0.1 mg/m³ (C); Skin (1992)
OSHA: 0.1 mg/m³ (TWA); Skin [Vacated];



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Quartz [CAS No. 14808-60-7]

ACGIH: 0.025 mg/m³ (TWA); A2; Respirable fraction (2009)

OSHA: 30 / (%SiO₂ + 2) mg/m³ Quartz (Total dust) (TWA), 10 / (%SiO₂ + 2) mg/m³ Quartz (Respirable) & 250 / (%SiO₂ + 5) mppcf Quartz (Respirable) (TWA); See Table Z3. 0.1 mg/m³ (As respirable quartz) (TWA) [Vacated];

Bisphenol A [CAS No. 80-05-7]

ACGIH: No TLV established.

OSHA: No PEL established.

Diethylenetriamine [CAS No. 111-40-0]

ACGIH: 1 ppm (TWA); Skin (1985)

OSHA: 1 ppm (TWA) [Vacated];

p-tert-Butylphenol [CAS No. 98-54-4]

ACGIH: No TLV established.

OSHA: No PEL established.

Phenol, 4-nonyl-, branched [CAS No. 84852-15-3]

ACGIH: No TLV established.

OSHA: No PEL established.

1,2-Diaminocyclohexane [CAS No. 694-83-7]

ACGIH: No TLV established.

OSHA: No PEL established.

2,4,6-tris(dimethylaminomethyl)phenol [CAS No. 90-72-2]

ACGIH: No TLV established.

OSHA: No PEL established.

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:

Wear chemical safety goggles, and full face shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.



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- Hand Protection:** 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.
- Skin and Body Protection:** Long-sleeved protective 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.
- Respiratory Protection:** If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, with organic vapour/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.
- Other:** A barrier cream may be used in conjunction with Personal Protective Equipment as an additional safeguard against skin contact.
- General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Specialty Polymer Coatings, Inc. has consulted a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection. These measures are reflected in our comprehensive training of customer employees.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Blue liquid.
- Colour:** Blue.
- Odour:** Ammonia.
- Odour Threshold:** Not available.
- Physical State:** Liquid.
- pH:** Not available.
- Melting Point / Freezing Point:** Not available.



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Initial Boiling Point:	> 107 °C (224.6 °F)
Boiling Range:	Not available.
Flash Point:	> 93.3 °C (199.94 °F) (PMCC)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Relative Density:	1.50 (Water = 1) at 25 °C (77 °F)
Solubilities:	Slightly soluble in water at 20 °C (68 °F) (0.1 to 1%).
Partition Coefficient: n-Octanol/Water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.
Density:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Chemical Stability:	Stable under normal storage conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Incompatible Materials:	Acids. Bases. Strong oxidizers. Hydrofluoric acid. Fluorine containing compounds. Acid chlorides. Aldehydes. Acid anhydrides.
Hazardous Decomposition Products:	Not available.



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Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

Component Toxicity

Component	CAS No.	LD₅₀ oral	LD₅₀ dermal	LC₅₀
Benzyl alcohol	100-51-6	1040 mg/kg (rabbit)	2000 mg/kg (rabbit)	Not available.
N-(2-Aminoethyl) piperazine	140-31-8	2140 µL/kg (rat)	880 µL/kg (rabbit)	Not available.
1,3-Benzenedimethanamine	1477-55-0	930 mg/kg (rat)	2000 mg/kg (rabbit)	700 ppm (rat); 1H
Quartz	14808-60-7	Not available.	Not available.	0.3 mg/m ³ (human); 10Y
Bisphenol A	80-05-7	2230 mg/kg (rabbit)	3000 µL/kg (rabbit)	Not available.
Diethylenetriamine	111-40-0	1080 mg/kg (rat)	1090 mg/kg (rabbit)	Not available.
p-tert-Butylphenol	98-54-4	1500 mg/kg (mammal)	1580 mg/kg (mammal)	Not available.
Phenol, 4-nonyl-, branched	84852-15-3	1300 mg/kg (rat)	Not available.	Not available.
1,2-Diaminocyclohexane	694-83-7	4556 mg/kg (rat)	Not available.	Not available.
2,4,6-tris (dimethylaminomethyl) phenol	90-72-2	1200 mg/kg (rat)	1280 mg/kg (rat)	Not available.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Liver. Kidneys. Central nervous system.

Symptoms (including delayed and immediate effects)

Inhalation: Harmful if inhaled. May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO₂) dust has occurred. Coughing and irritation of throat are early symptoms.

Eye: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.



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Skin: Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Ingestion: Harmful if swallowed. Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen.

Skin Sensitization: Hazardous by OSHA/WHMIS criteria. May cause sensitization through skin contact.

Respiratory Sensitization: Not available.

Medical Conditions Aggravated By Exposure: Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Liver. Kidneys. Reproductive system. Central nervous system.

Chronic Effects: Hazardous by OSHA/WHMIS criteria. May cause chronic effects. Prolonged or repeated contact may dry skin and cause irritation. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Repeated exposure to Silica (Quartz, SiO₂) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.

Carcinogenicity: May cause cancer. Respirable Silica (Quartz, SiO₂) dust is classified as a human carcinogen.

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Quartz	A2	Group 1	List 1	OSHA Carcinogen.	Listed.

Mutagenicity: Not available.

Reproductive Effects: Suspected of damaging fertility or the unborn child.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Possible risk of harm to the unborn child.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.



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Mobility in Environment: Not available.
Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(Aminoethylpiperazine, Diethylenetriamine), 8, PG II
Class: 8
UN Number: UN2735
Packing Group: II
Label Code:



Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(Aminoethylpiperazine, Diethylenetriamine), 8, PG II
Class: 8
UN Number: UN2735
Packing Group: II
Label Code:



ICAO/IATA

Proper Shipping Name: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(Aminoethylpiperazine, Diethylenetriamine), 8, PG II
Class: 8
UN Number: UN2735
Packing Group: II
Label Code:



Marine Pollutant: Yes.



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IMDG

Proper Shipping Name: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(Aminoethylpiperazine, Diethylenetriamine), 8, PG II

Class: 8

UN Number: UN2735

Packing Group: II

Label Code:



Marine Pollutant: Yes.

Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Bisphenol A	Not listed.	Not listed.	Not listed.	313	Not listed.	Not listed.
Phenol, 4-nonyl-, branched	Not listed.	Not listed.	Not listed.	313\$	Not listed.	Not listed.

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Benzyl alcohol	100-51-6	Listed.
N-(2-Aminoethyl)piperazine	140-31-8	Listed.
1,3-Benzenedimethanamine	1477-55-0	Listed.
Quartz	14808-60-7	E
Bisphenol A	80-05-7	Listed.
Diethylenetriamine	111-40-0	Listed.

Note: E = Extraordinarily Hazardous Substance



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New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Benzyl alcohol	100-51-6	Not listed.
N-(2-Aminoethyl)piperazine	140-31-8	SHHS
1,3-Benzenedimethanamine	1477-55-0	Listed.
Quartz	14808-60-7	SHHS
Bisphenol A	80-05-7	Listed.
Diethylenetriamine	111-40-0	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component	CAS No.	RTK List
Benzyl alcohol	100-51-6	Listed.
N-(2-Aminoethyl)piperazine	140-31-8	Listed.
1,3-Benzenedimethanamine	1477-55-0	Listed.
Quartz	14808-60-7	Listed.
Bisphenol A	80-05-7	E
Diethylenetriamine	111-40-0	Listed.

Note: E = Environmental Hazard; S = Special Hazardous Substance

California

California Prop 65:



WARNING This product can expose you to chemicals including Quartz and Bisphenol A, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. 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. Any use of these data and information must be determined by the user to be in accordance with applicable governmental laws and regulations.

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Version: 1.5

GHS SDS Prepared by: Aegis Regulatory Inc.

Phone: (519) 488-0351

www.aegisreg.com



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ABBREVIATIONS USED IN PREPARING THIS SDS

% (Percent)	< (Less than)	> (Greater than)	@ (at)
ACGIH	American Conference of Governmental Industrial Hygienists		
ATE	Acute Toxicity Estimate		
C	Celsius		
CAS No.	CAS Registry Number		
CANUTEC	Canadian Transport Emergency Centre		
CEIL	Ceiling Limit		
CEPA, 1999	Canadian Environmental Protection Act, 1999		
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (U.S.)		
DOT	Department of Transportation (U.S.)		
F	Fahrenheit		
g/kg	Grams per Kilogram		
GHS	Globally Harmonized System of Classification and Labelling of Chemicals		
H	Hour		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods Code		
Kg	Kilogram		
Lb/gal	Pounds per Gallon		
LC ₅₀	Lethal Concentration (50% Death)		
LD ₅₀	Lethal Dose (50% Death)		
mg/kg	Milligrams per Kilogram		
mg/L	Milligrams per Litre		
mg/m ³	Milligrams per Cubic Metre		
ml/kg	Millilitres per Kilogram		
mmHg	Millimetres of Mercury		
mppcf	Millions of particles per Cubic Foot		
MSHA	Mine Safety and Health Administration (U.S.)		
NIOSH	National Institute for Occupational Safety and Health		
NTP	National Toxicology Program (U.S.)		
N.O.S.	Not Otherwise Specified		
OSHA	Occupational Safety and Health Administration (U.S.)		
PEL	Permissible Exposure Limit		
PMCC	Pensky-Martens Closed Cup		
ppm	Parts per million		
RCRA	Resource Conservation and Recovery Act (U.S.)		
SARA	Superfund Amendments and Reauthorization Act, 1986 (U.S.)		
SDS	Safety Data Sheet		
SFCC	Setaflash Closed Cup Tester		
STEL	Short-Term Exposure Limit		
TDG	Transportation of Dangerous Goods Regulations (Canada)		
TLV	Threshold Limit Value		
TWA	Time-Weighted Average		
TSCA	Toxic Substances Control Act		
µL/kg	Micro Litre per Kilogram		
WHMIS	Workplace Hazardous Materials Information System (Canada)		