Section 1: IDENTIFICATION

Product Name:	SP-1288-GP Spray Hardener
Product Identifier:	PART “B” HARDENER
Product Code:	850-095
Detail:	Epoxy. General Purpose. Blue.
Product Use:	Curing agent for SP-1288-GP Spray 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:	April 3, 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
Toxic to Reproduction, Category 2
Specific Target Organ Toxicity (Single Exposure), Category 3 - Respiratory Irritation

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.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.

Precautionary Statements

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Do not breathe 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.
Take off contaminated clothing and wash it before reuse.
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, 2015.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Benzenemethanol	Benzyl alcohol	100-51-6	40 - 44
1,3-Benzenedimethanamine	MXDA	1477-55-0	15 - 20
1,2-Cyclohexanediamine	1,2-Diaminocyclohexane	694-83-7	1 - 3
4-Morpholinepropanamine	N-(3-Aminopropyl)morpholine	123-00-2	1 - 2
Phenol, nonyl-	Nonylphenol	25154-52-3	0.5 - 1

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.

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. 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.

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 discoloration 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.

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. Do not breathe mist, vapours, or spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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.

1,3-Benzenedimethanamine [CAS No. 1477-55-0]
ACGIH: 0.1 mg/m³ (CEIL); Skin (1992)
OSHA: 0.1 mg/m³ (TWA); Skin [Vacated];

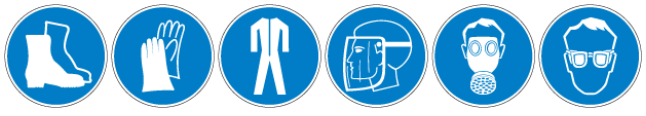
1,2-Diaminocyclohexane [CAS No. 694-83-7]
ACGIH: No TLV established.
OSHA: No PEL established.

N-(3-Aminopropyl)morpholine [CAS No. 123-00-2]
ACGIH: No TLV established.
OSHA: No PEL established.

Nonylphenol [CAS No. 25154-52-3]
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 glasses, goggles, and/or 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.

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.

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.

Other: 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

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

Boiling Range:	> 107.2 °C (225 °F)
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:	1.077 (Water = 1) at 25 °C (77 °F)
Solubilities:	Slightly soluble in water at 20 °C (68 °F).
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:	Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Avoid reactive metals (e.g. sodium, calcium, zinc, etc.). Avoid materials reactive with hydroxyl compounds. Avoid contact with incompatible substances.
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Incompatible Materials:	Acids. Bases. Oxidizers. Metals.
Hazardous Decomposition Products:	Not available.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

Component Toxicity

Component	CAS No.	LD_{50} oral	LD_{50} dermal	LC_{50}
Benzyl alcohol	100-51-6	1040 mg/kg (rabbit)	2000 mg/kg (rabbit)	Not available.
1,3-Benzenedimethanamine	1477-55-0	930 mg/kg (rat)	2000 mg/kg (rabbit)	700 ppm (rat); 1H
1,2-Diaminocyclohexane	694-83-7	4556 mg/kg (rat)	Not available.	Not available.
N-(3-Aminopropyl)morpholine	123-00-2	3560 mg/kg (rat)	1.23 mL/kg (rabbit)	Not available.
Nonylphenol	25154-52-3	580 mg/kg (rat)	2140 µL/kg (rabbit)	Not available.

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

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. 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.

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.

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: Prolonged or repeated contact may dry skin and cause irritation.

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by ACGIH, IARC, OSHA, or NTP.

Mutagenicity: Not available.

Reproductive Effects: Suspected of damaging fertility or the unborn child. Nonylphenol is a low level endocrine disruptor due to its weak ability to mimic estrogen and in turn disrupt the natural balance of hormones in a given organism. The effect is weak because nonylphenols are not very close structural mimics of estradiol, but the levels of nonylphenol can be sufficiently high to compensate.

Developmental Effects

Teratogenicity: Not available.

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

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. (1,3-Benzenedimethanamine (MXDA)), 8, PG III

Class: 8

UN Number: UN2735

Packing Group: III

Label Code:

Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name:	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine (MXDA)), 8, PG III
Class:	8
UN Number:	UN2735
Packing Group:	III
Label Code:	

ICAO/IATA

Proper Shipping Name:	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine (MXDA)), 8, PG III
Class:	8
UN Number:	UN2735
Packing Group:	III
Label Code:	
Marine Pollutant:	Yes.

IMDG

Proper Shipping Name:	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine (MXDA)), 8, PG III
Class:	8
UN Number:	UN2735
Packing Group:	III
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.)
Nonylphenol	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.
1,3-Benzenedimethanamine	1477-55-0	Listed.
N-(3-Aminopropyl)morpholine	123-00-2	Listed.
Nonylphenol	25154-52-3	Listed.

Note: E = Extraordinarily Hazardous Substance

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
1,3-Benzenedimethanamine	1477-55-0	Listed.
N-(3-Aminopropyl)morpholine	123-00-2	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.
1,3-Benzenedimethanamine	1477-55-0	Listed.
N-(3-Aminopropyl)morpholine	123-00-2	Listed.
Nonylphenol	25154-52-3	Listed.

California
California Prop 65:

WARNING This product does not contain chemicals 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.

Date of Preparation of SDS:	April 3, 2019
Version:	1.4
GHS SDS Prepared by:	**Aegis Regulatory Inc.**
	Phone: (519) 488-0351
	www.aegisreg.com

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)