Safety Data Sheet

B-40 Epoxy Bonder -Component A

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

SPECCO INDUSTRIES, INC.

www.specco.com

SECTION 1. Identification

1.1 Product Identifier:
Product Name: B-40 Epoxy Bonder - Component A
Product Code: Formulation JB-189A
1.2 Uses of the product:
Epoxy Bonder – Component A = Resin
1.3 Details of the product manufacturer:
Supplied By: Specco Industries Inc.
601 N. 5th Ave.
Kankakee, Illinois 60901
(630)-257-5060
e-Mail: Info@specco.com

1.4 Emergency Telephone Number:

24 Hour Emergency:
INFOTRAC: 1-800-535-5053

Outside U.S. and Canada
Infotrac: 352-323-3500

Note: INFOTRAC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

SECTION 2. Hazard(s) Identification

2.1* EMERGENCY OVERVIEW** *** Health hazard: Suspected of causing genetic defects Environmental Hazard,: Toxic to aquatic life with long lasting effects. Irritant: Causes skin irritation, may cause an allergic skin reaction. Sensitizing: May cause sensitization by skin contact.

Target Organs: Eyes, skin, respiratory system, central nervous system

2.2 Classification of the substance or mixture:

GHS-US Classification
Hazardous to the Aquatic Environment- Long-Term (Chronic) Hazard Category 2
Specific target organ toxicity-single exposure Category 3
Acute Toxicity, inhalation category 4

2.3 Label elements:

Symbol(s) of Product GHS-US labeling:
Hazard pictograms (GHS-US):
Signal Word: Warning

2.3 Label Elements:
GHS-US HAZARD STATEMENTS:

Skin Irritation, category 2	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
Eye Irritation, category 2	H319	Causes serious eye irritation
Health hazard:	H341	Suspected of causing genetic defects

Aquatic Life Cat .2.	H411	Toxic to aquatic life with long lasting effects. Contains epoxy constituents . May produce an allergic reaction. Contains reaction products of Epichlorohydrin and Bisphenol A, oxirane,
momo		(C12-C14 alkloxy)methyl) drivs, May produce an allergic reaction.

GHS –US PRECAUTIONARY STATEMENTS:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P261	Avoid breathing fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling..
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in well-ventilated areas.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required.

RESPONSE:

P301+P310	IF SWALLOWED, immediately call a POISON CENTER/doctor/physician
P302 + P352	IF ON SKIN, Wash with plenty of water.
P303 +P361+P353	IF ON SKIN (or hair): Take of immediately all contaminate clothing. Rinse skin with water shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P314	Get medical attention/advice if you feel unwell.
P321	Specific treatment (see first aid section on label/SDS) .
P331	Do NOT induce vomiting
P332 + P313	If skin irritation occurs: get medical advice/attention.
P337 + P313	If eye irritation occurs: get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate method to extinguish.

STORAGE:

P403 + P233	Store in a well ventilated place. Keep containers tightly closed.
P403 +P235	Store in a well ventilated place . Keep cool.
P405	Store locked up.

DISPOSAL:

P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

2.4 Other hazards:
Hazardous decomposition products: None listed

SECTION 3. Composition on Ingredients

3.1 Substances:

Chemical name	Haz Code	CAS-No.	Wt. %	GHS-US Symbol	GHS-US Statements
Epichlorohydrin and Bisphenol A blend	2910.30.00	250585-99-8	50-100	GHS07, S08, S09	H317-318-319
Oxirane , mono (c12-14-alkloxy)methyl drivs		68609-97-2	10-25	GHS07 , S08,S09	H317-318-319
1-chloro-2,3 epoxypropane		106-89-8	<0.10	GHS07, S08,S09	H317-318-319
Proprietary	Trade Secret	N.A.	N.A.	N.A.	

*Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Specific chemical identities on Proprietary Compounds will be made available to medical professionals and others as required by 29 CFR 1910.2100 (i)(iv). Refer to Section 4 for additional health hazard information.

Note: The full text for GHS Statements shown above (if any) is given in the "Other Information" Sect. (16)

STOT SE = Specific target organ toxicity for a single exposure
STOT RE = Specific target organ toxicity for a repeated exposure

SECTION 4. First-Aid Measures

4.1 Description of first aid measures:

FIRST AID- EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

FIRST AID- SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

FIRST AID- INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID- INGESTION: If swallowed, do **NOT** induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2 Principle symptoms and health effects both acute and delayed:

EYE CONTACT: Hold eye lids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

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SKIN CONTACT: Contact with skin may cause mild irritation. Prolonged or repeated contact can Result in defatting skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

INHALATION: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin

cardiopulmonary resuscitation immediately. Move to fresh air.

INGESTION: Do NOT induce vomiting without medical advice. If a person vomits when lying on their back, place them in a recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

MOST IMPORTANT SYMPTOMS/EFFECT-ACUTE AND DELAYED: : Eye disease. Skin disorders and Allergies. Asthma. Neurological disorders. Liver disorders.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Contact

4.3 Indication of any immediate medical attention and special treatment needed:
Note to Physicians: Application of corticosteroid cream has been effective in treating skin irritation

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media:
Suitable Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog
Unsuitable Extinguishing Media: None Known

5.2 Special hazards arising from the substance or mixture:
Fire Hazard: Flammable liquid and vapor. Can form explosive mixtures at temperatures at or above the flashpoint. Vapors/dust may form explosive mixture with air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.
Explosion Hazard: Yes-see above.
Reactivity: No hazardous combustion products or hazard reactions are known.

5.3 Advice for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition. Avoid use of solid water streams. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire..

SECTION 6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures
General: Wear personal protection equipment (see Section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors. If material is released indicate risk of slipping.

Protective Equipment: Wear protective clothing as appropriate for the work environment, including gloves, and eye/face protection. Use respiratory protection as recommended in Section 8-Exposure controls/personal protection.

Emergency Procedure: Collect spilled materials for disposal.

6.2 Environmental precautions:
Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of materials which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods and material for containment and cleaning up:
Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth, dry sand, or earth, place in a chemical waste container, and dispose of according to local/state/federal regulations. Do not touch or walk though spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spilled area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.

6.4 Reference to other Sections:
Refer to Sections 8 and 13 for additional information. Eliminate all sources of ignition.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling:

Work Practices: Use only in well ventilated places. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. When transferring, follow proper grounding procedures. Use spark resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all SDS/label precautions even after the containers are emptied because they may retain product residues.

Hygiene Practices: Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:
Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

Static Discharge: Materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

7.3 Specific end use(s):
Intended Use(s): Concrete bonding compound- two part product
Prohibited use(s): None listed

SECTION 8. Exposure Controls/Personal Protection

8.1 Control Parameters:
Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH-TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
NA.				

8.2 Exposure controls:
8.2.1 Engineering controls:

Minimize the release of solvent fumes or vapors. Use process controls, local exhaust ventilation, or other engineering controls to maintain airborne levels below the limits shown in Section 8.1 above. See also ACGIH Industrial Ventilation-Recommended Practice (latest edition).

8.2.2 Personal protective equipment (PPE):

RESPIRATORY PROTECTION: NIOSH/MHSA approved respirators are necessary if airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Wear impervious, impermeable gloves such as butyl rubber based to prevent contact with the skin. Wear protective gear as needed such as apron, long sleeved shirts to minimize contact. Wash hands with soap and water after use.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat or drink in areas where the material is used. Avoid breathing fumes. Remove contaminated clothing and wash before re-use. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Clear, transparent liquid	**Physical State:**	Liquid
Odor:	Slight	**Odor Threshhold**:	N.D..
Density, g/cm3:	1.164	**pH:**	N.A.
Freeze Point, °F:	N.A.	**Viscosity**:	12,000 cps (+/-500)
Solubility in Water:	Not miscible	**Explosive Limits, vol%:**	N.A.
Boiling Point:	428 deg. F (220 deg. C)	**Flash Point,**	302 deg. F, (150 deg. C))
Evaporation Rate:	N.A.	**Auto Ignition Temp,°F:**	N.A.
Vapor Density:	Heavier than air	**Vapor Pressure**:	N.A

9.2 Note: See “Other Information” Section (16) for abbreviation legend

SECTION 10. Stability and Reactivity

10.1 Reactivity:
None listed.

10.2 Chemical stability / Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications

10.3 Possibility of hazardous reactions:
Reacts with oxidizing agents
Reacts with amines
Exothermic reaction

10.4 Conditions to avoid:
None

10.5 Incompatible materials:
None

10.6 Hazardous decomposition products:
Carbon Monoxide and carbon dioxide.

SECTION 11. Toxilogical Information

11.1 Information on Toxilogical Effects: Toxilogical testing has **not** been conducted with this material.

11.1.1 Acute toxicity: The acute effects of this product have not been tested. Primary irritant effect is on the skin. Irritant to skin and mucous mebranes on the eye. Sensitization possible though skin contact. Sensitization effect through inhalation is possible by prolonged exposure.
Data on individual components are below:

Name according to EEC	**CAS#**	**Oral LD50, mg/kg**	**Dermal LD50, mg/kg**	**Vapor LC50,mgL**
Epichlorohydrin and Bisphenol A blend	250585-99-8		No data available for all	
(c12-14-alkloxy)methyl drivs	68609-97-2			
1-chloro-2,3 epoxypropane	106-89-8			

11.1.3 Possibles eye damage/eye irritation
11.1.4 Respiratory or skin sensitization
11.1 .5 None
11.1.6 None
11.1.7 None
11.1.8 None
11.1.9 None
11.1.10 Aspiration hazard
Assessment: For this endpoint, **no** toxilogical test data is available for the whole product.

11.1.11:
Other information: None

SECTION 12. Ecological Information

12.1 Toxicity
Ecotoxicity: Material is expected to be toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment.
Acute Toxicity : No data
Chronic Toxicity: No data

12.2 Persistence and degradability
The product is not easily, but potentially, degadeable.

12.3 Bioaccumulative potential
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible. .

12.4 Mobility in Soil
The material has a low solubility in water. Therefore, chronic aquatic toxicity is not expected, however, a significant spill may cause long-term adverse effects in the aquatic environment. Additional notes: water hazard class 2, (self-assessment), hazardous for water. Danger to drinking water in even small quantities leak into ground

12.5 Other adverse effects
No other specific adverse effects known

SECTION 13. Disposal Considerations

13.1 RCRA Waste Classification
Must not be disposed together with household garbage. Do not allow the product to seep into the sewage system.

Recommended to dispose of according to regulations in a special waste incinerator. Always dispose of any waste in accordance with all local, state, and federal regulations.

13.3 Packaging disposal
Completely discharge containers (no tear drops, no residual contents). Observe local/state/federal regulations.

SECTION 14. Transport Information

14.1 UN Number:
Not regulated by D.O.T.

14.2 UN Proper Shipping Name:
Resin Solution

14.3 Transport hazards class:
None

14.4 Packing Group:
None

14.5 Environmental hazards:
Not relevant

14.6 Special precautions for user:
No special precautions

SECTION 15. Regulatory Information

15.1 U.S. Federal Regulations:
TSCA No:
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory. This material does not contain any TSCA 12(b) regulated chemicals.

SARA SECTION 355:
None of the chemicals are on the list

SARA SECTION 311/312 (Hazard Class)
None of the chemicals are on the list

SARA SECTION 313 (Chemicals)
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40CFR part 372:

CAS #	Chemical	Upper limit wt %

None of the ingredients are listed

RCRA:
No components are listed under the Resource Conservation and Recovery Act, or its regulations,, 40CFR S261 et. Seq.

CERCLA:
Components of this product have been reviewed according to the EPA “Hazard Categories” promulgated under Sections 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA Title III) and is considered , under applicable definitions, to meet the following categories:
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

EMERGENCY PLANNNING AND COMMUNITY RIGHT TO KNOW ACT:
None listed

CLEAN AIR ACT:
This product does not contain any Class I or Class II ozone depleting substances.

FDA:
No information

NTP:
No information

OSHA:
No information

15.2 U.S, State Regulations:

CALIFORNIA PROPOSITION 65:
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	Cas#
1-chloro-2,3-epoxypropane	106-89-8

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Chemical Name	Cas#
1-chloro-2,3-epoxypropane	106-89-8

MASSACHUSETTS TOXIC USE REDUCTION ACT: This material contains no listed components

NEW JERSEY RIGHT-TO -KNOW:
This material contains no listed components

PENNSYLVANIA RIGHT-TO- KNOW:
This material contains no listed components

15.3 International regulations:

CANADIAN WHMIS:
This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all of the information required by the CPR

WHMIS Class: No information

DSL Status: This material or one or more of its components is **not** listed on the Canadian Domestic Substances List**.**

EUROPEAN UNION:
No Information

IARC:
No information

15.4 Other Regulations
National, state, provincial or local emergency planning, community right to know or other laws, regulations or ordinances may be applicable-consult applicable national , state, provincial or local laws.

SECTION 16. Other Information

Revision Date: 12-11-19 **Supersedes Date**: 11-26-19

S.D.S. produced by: Specco Regulatory Department in accordance with the requirements outlined in the Federal Register, Volume 77, NO.58, March 2012 page 17574. In this final rule, OSHA modified its Hazard Communication Standard (HCS) to conform to the United Nation's Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The modifications to the standard included but were not limited to revised criteria for classification of chemical hazards and a new specified format for Safety Data Sheets.

Standardized American System for the identification of hazards presented by this product in view of emergency procedures (NFPA 704) / H.M.I.S. Ratings:

Health:	**2**	**Flammability:**	**1**	**Reactivity:**	**0**	**Personal Protection:**	**G**

Regarding Volatile Organic Compounds, gram/liter: N.A. (0)
DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL V.O.C. CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING V.O.C. CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING V.O.C. CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, SPECCO MAKES NO REPRESNTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH V.O.C. STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in section 3 describing each ingredient:

Skin Irritation, category 2 H315 Causes skin irritation

	H317	May cause an allergic skin reaction
Eye Irritation, category 2	H319	Causes serious eye irritation
Health hazard:	H341	Suspected of causing genetic defects
Aquatic Life Cat .2.	H411	Toxic to aquatic life with long lasting effects. Contains epoxy constituents . May produce an allergic reaction. Contains reaction products of Epichlorohydrin and Bisphenol A, oxirane,
momo		(C12-C14 alkloxy)methyl) drivs, May produce an allergic reaction.

ns for GHS Pictograms shown in Section 3 describing each ingredient:

GHS07

GHS08

GHS09

Legend: * Refer to 49 CFR for possible exceptions and exemptions. Abbreviations: TLV= Threshold Limit Value. TWA= Time Weighted Average. STEL= Short Term Exposure Limit. N.A. = Not Applicable. N.D. = Not Determined, N.E. =Not Established. IATA= International Air Transport Association. IMDG= International Maritime Dangerous Goods.

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability from loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Safety Data Sheet

B-40 Epoxy Bonder-Component B

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

www.specco.com

SECTION 1. Identification

1.1 Product Identifier:
Product Name: B-40 Epoxy Bonder-Component B
Product Code: Formulation JB-189B
1.2 Uses of the product:
Epoxy Bonder - Component B = Cure
1.3 Details of the product manufacturer:
Supplied By: Specco Industries Inc.
601 N. 5th Ave.
Kankakee, Illinois 60901
(630)-257-5060
e-Mail: Info@specco.com

1.4 Emergency Telephone Number:

24 Hour Emergency:
INFOTRAC: 1-800-535-5053

Outside U.S. and Canada
Infotrac: 352-323-3500

Note: INFOTRAC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

SECTION 2. Hazard(s) Identification

2.1* EMERGENCY OVERVIEW** *** Health hazard: Suspected of causing genetic defects Environmental Hazard,: Toxic to aquatic life with long lasting effects. Irritant: Causes skin irritation, may cause an allergic skin reaction. Sensitizing: May cause sensitization by skin contact.

Target Organs: Eyes, skin, respiratory system, central nervous system

2.2 Classification of the substance or mixture:

GHS-US Classification
Specific target organ toxicity-repeated exposure –Oral- Category 2
Acute Toxicity, oral -Category 4
Skin Corrosion – Category C
Eye Damage –Moderate Category 2
Skin Sensitization – Category 1

2.3 Label elements:

Symbol(s) of Product GHS-US labeling:
Hazard pictograms (GHS-US):
Signal Word: Warning

2.3 Label Elements:
GHS-US HAZARD STATEMENTS:

H302	Harmful if swallowed
H313	May be harmful if in contact with the skin
H317	May cause an allergic skin reaction

H373a May cause damage to organs through prolonged or repeated exposure

GHS –US PRECAUTIONARY STATEMENTS:

P202 Do not handle until all safety precautions have been read and understood..
P261 Avoid breathing fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling..
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection
P281 Use personal protective equipment as required.

RESPONSE:

P301+P310+P331 IF SWALLOWED, immediately call a POISON CENTER/doctor/physician. Do NOT induce vomiting.
P302 + P352 IF ON SKIN, Wash with plenty of water.
P303 +P361+P353 IF ON SKIN (or hair): Take of immediately all contaminate clothing. Rinse skin with water shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P314 Get medical attention/advice if you feel unwell.
P321 Specific treatment (see first aid section on label/SDS) .
P332 + P313 If skin irritation occurs: get medical advice/attention.
P337 + P313 If eye irritation occurs: get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use appropriate method to extinguish.

STORAGE:

P403 + P233 Store in a well ventilated place. Keep containers tightly closed.
P403 +P235 Store in a well ventilated place . Keep cool.

DISPOSAL:

P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

2.4 Other hazards:

Hazardous decomposition products: None listed

SECTION 3. Composition on Ingredients

3.1 Substances:

Chemical name	Haz Code	CAS-No.	Wt. %	GHS-US Symbols	GHS-US Statements
Polyamidoamine	n/a	68082-29-1	90-100%	GHS07, S08, S09	H317-318-319
Triethylenetetramine	2921.30.00	112-24-3	0-10%	GHS07 , S08,S09	H317-318-319

*Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels.

*Specific chemical identities on Proprietary Compounds will be made available to medical professionals and others as required by 29 CFR 1910.2100 (i)(iv). Refer to Section 4 for additional health hazard information. **Note:** The full text for GHS Statements shown above (if any) is given in the “Other Information” Sect. (16): STOT RE = Specific target organ toxicity for a repeated exposure

SECTION 4. First-Aid Measures

4.1 Description of first aid measures:

FIRST AID- EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

FIRST AID- SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

FIRST AID- INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID- INGESTION: If swallowed, do **NOT** induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2 Principle symptoms and health effects both acute and delayed:

EYE CONTACT: Hold eye lids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

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SKIN CONTACT: Contact with skin may cause mild irritation. Prolonged or repeated contact can Result in defatting skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

INHALATION: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

INGESTION: Do NOT induce vomiting without medical advice. If a person vomits when lying on their back, place them in a recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

MOST IMPORTANT SYMPTOMS/EFFECT-ACUTE AND DELAYED: : Eye disease. Skin disorders and Allergies. Asthma. Neurological disorders. Liver disorders.

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Contact

4.3 Indication of any immediate medical attention and special treatment needed:
Note to Physicians: Application of corticosteroid cream has been effective in treating skin irritation.

SECTION 5. Fire-Fighting Measures

5.1 Extinguishing Media:
Suitable Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Dry sand, limestone powder
Unsuitable Extinguishing Media: None Known

5.2 Special hazards arising from the substance or mixture:
Fire Hazard: None
Specific Hazards: Incomplete combustion may form carbon monoxide. My generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.
Reactivity: NA
5.3 Advice for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service, and eliminate sources of ignition. Avoid use of solid water streams. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire..

SECTION 6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures
General: Wear personal protection equipment (see Section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapors. If material is released indicate risk of slipping.

Protective Equipment: Wear protective clothing as appropriate for the work environment, including gloves, and eye/face protection. Use respiratory protection as recommended in Section 8-Exposure controls/personal protection.

Emergency Procedure: Collect spilled materials for disposal.

6.2 Environmental precautions:
Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Spills of materials which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods and material for containment and cleaning up:
Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth, dry sand, or earth, place in a chemical waste container, and dispose of according to local/state/federal regulations. Do not touch or walk though spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spilled area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Exhaust vapors.

6.4 Reference to other Sections:
Refer to Sections 8 and 13 for additional information. Eliminate all sources of ignition.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling:

Work Practices: Use only in well ventilated places. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. When transferring, follow proper grounding procedures. Use spark resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all SDS/label precautions even after the containers are emptied because they may retain product residues.

Hygiene Practices: Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:
Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

Static Discharge: Materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

7.3 Specific end use(s):
Intended Use(s): Concrete Bonder- two part system
Prohibited use(s): None listed

SECTION 8. Exposure Controls/Personal Protection

8.1 Control Parameters:
Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH-TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
NA				

8.2 Exposure controls:
8.2.1 Engineering controls:
Minimize the release of fumes or vapors. Use process controls, local exhaust ventilation, or other engineering controls to maintain airborne levels below the limits shown in Section 8.1 above. See also ACGIH Industrial Ventilation-Recommended Practice (latest edition).

8.2.2 Personal protective equipment (PPE):

RESPIRATORY PROTECTION: NIOSH/MHSA approved respirators are necessary if airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Wear impervious, impermeable gloves such as butyl rubber based to prevent contact with the skin. Wear protective gear as needed such as apron, long sleeved shirts to minimize contact. Wash hands with soap and water after use.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat or drink in areas where the material is used. Avoid breathing fumes. Remove contaminated clothing and wash before re-use. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Clear, light yellow	**Physical State:**	Liquid
Odor:	Ammoniated	**Odor Threshhold**:	N.D..
Density, g/cm3:	0.972	**pH:**	Alkaline
Freeze Point, °F:	N.A.	**Viscosity**:	450 cps (+/-50)
Solubility in Water:	Not miscible	**Explosive Limits, vol.%:**	N.A.
Boiling Point:	405 deg. F (207 deg. C)	**Flash Point,**	340 deg. F, (170 deg. C))
Evaporation Rate:	N.A.	**Weight /gallon:**	8.10 lb./ gal
Vapor Density:	Heavier than air	**Vapor Pressure**:	<21 mm HG at 25 deg C

9.2 Note: See “Other Information” Section (16) for abbreviation legend

SECTION 10. Stability and Reactivity

10.1 Reactivity:
None listed.

10.2 Chemical stability / Thermal decomposition / Conditions to be avoided:
No decomposition if used according to specifications

10.3 Possibility of hazardous reactions:

10.4 Conditions to avoid:
None

10.5 Incompatible materials:
Reactive metals (sodium, calcium, zinc), Materials reactive with hydroxyl compounds, organic acids (acetic,citric), mineral acids, sodium hypochlorite, oxidizing agents… reaction with peroxides may result in a violent decomposition possibly creating an explosion.

10.6 Hazardous decomposition products:
Carbon Monoxide and carbon dioxide., aldehydes, nitrogen oxides, ammonia, nitric acid

SECTION 11. Toxilogical Information

11.1 Information on Toxilogical Effects: Toxilogical testing has **not** been conducted with this material.

11.1.1 Acute toxicity: The acute effects of this product have not been tested. Primary irritant effect is on the skin. Irritant to skin and mucous membranes on the eye. Sensitization possible though skin contact. Sensitization effect through inhalation is possible by prolonged exposure.
Data on individual components are below:

Name according to EEC	CAS#	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50,mgL
NA				

11.1.3 Possibles eye damage/eye irritation: Corneal edema may give rise to a perception of “blue haze” or “fog” around lights. Exposed individuals may see rings around bright lights. This effect is temporary andhas no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere.. Causes eye burns. May cause blindness.

11.1.4 Respiratory or skin sensitization: Harmful if in contact with skin. Causes skin burns. If absorbed through the skin, may cause central nervous system effects such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of over exposure may be headache, dizziness, tiredness,nausea, and vomiting.

11.1 .5 Inhalation effects: Harmful if inhaled and may cause delayed lung injury. Can cause severe eye, skin, and respiratory tract burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause central nervous system effects such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. Harmful if inhaled.

11.1.6 Ingestion effects: Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophogus and the stomach.

11.1.7 None
11.1.8 None
11.1.9 None
11.1.10 Aspiration hazard
No data available.

11.1.11:
Other information: None

SECTION 12. Ecological Information

12.1 Toxicity
Ecotoxicity: No data available.
Acute Toxicity : No data
Chronic Toxicity: No data

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential
No data available.

12.4 Mobility in Soil
No data available.

12.5 Other adverse effects
No other specific adverse effects known

SECTION 13. Disposal Considerations

13.1 RCRA Waste Classification
Must not be disposed together with household garbage. Do not allow the product to seep into the sewage system.

Recommended to dispose of according to regulations in a special waste incinerator. Always dispose of any waste in accordance with all local, state, and federal regulations.

13.3 Packaging disposal
Completely discharge containers (no tear drops, no residual contents). Observe local/state/federal regulations.

SECTION 14. Transport Information

14.1 UN Number:
UN 3082- **Not regulated by D.O.T. Note- Meets "Limited Quantity" allowances per C.F.R. Section 173.154 b(2) as the unit components are < 4L (1 gallon) size maximum per package.**

14.2 UN Proper Shipping Name:
Environmentally Hazardous Substances, Liquid, Corrosive, N.O.S. (contains Tall Oil Fatty Acids and Triethylenetetraamine)

14.3 Transport hazards class:
9

14.4 Packing Group:
III

14.5 Environmental hazards:
Not relevant

14.6 Special precautions for user:
No special precautions, not a marine pollutant

SECTION 15. Regulatory Information

15.1 U.S. Federal Regulations:
TSCA No:
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory. This material does not contain any TSCA 12(b) regulated chemicals.

SARA SECTION 355:
None of the chemicals are on the list

SARA SECTION 311/312 (Hazard Class)
None of the chemicals are on the list

SARA SECTION 313 (Chemicals)

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and reauthorization Act of 1986 and 40CFR part 372:

CAS #	Chemical	Upper limit wt %

None of the ingredients are listed

RCRA:
No components are listed under the Resource Conservation and Recovery Act, or its regulations,, 40CFR S261 et. Seq.

CERCLA:
Components of this product have been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA Title III) and is considered , under applicable definitions, to meet the following categories:
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

EMERGENCY PLANNNING AND COMMUNITY RIGHT TO KNOW ACT:
None listed

CLEAN AIR ACT:
This product does not contain any Class I or Class II ozone depleting substances.

FDA:
No information

NTP:
No information

OSHA:
No information

15.2 U.S, State Regulations:

CALIFORNIA PROPOSITION 65:
Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name	Cas#
1-chloro-2,3-epoxypropane	106-89-8

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Chemical Name	Cas#
1-chloro-2,3-epoxypropane	106-89-8

MASSACHUSETTS TOXIC USE REDUCTION ACT:
This material contains no listed components

NEW JERSEY RIGHT-TO -KNOW:
This material contains no listed components

PENNSYLVANIA RIGHT-TO- KNOW:
This material contains no listed components

15.3 International regulations:

CANADIAN WHMIS:

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all of the information required by the CPR

WHMIS Class: No information

DSL Status: This material or one or more of its components is **not** listed on the Canadian Domestic Substances List**.**

EUROPEAN UNION:
No Information

IARC:
No information

15.4 Other Regulations
National, state, provincial or local emergency planning, community right to know or other laws, regulations or ordinances may be applicable-consult applicable national , state, provincial or local laws.

SECTION 16. Other Information

Revision Date: 12-11-19 **Supersedes Date**: 11-26-19

S.D.S. produced by: Specco Regulatory Department in accordance with the requirements outlined in the Federal Register, Volume 77, NO.58, March 2012 page 17574. In this final rule, OSHA modified its Hazard Communication Standard (HCS) to conform to the United Nation's Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The modifications to the standard included but were not limited to revised criteria for classification of chemical hazards and a new specified format for Safety Data Sheets.

Standardized American System for the identification of hazards presented by this product in view of emergency procedures (NFPA 704) / H.M.I.S. Ratings:

Health:	**2**	**Flammability:**	**1**	**Reactivity:**	**0**	**Personal Protection:**	**G**

Regarding Volatile Organic Compounds, gram/liter: N.A. (0)
DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (V.O.C.) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL V.O.C. CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING V.O.C. CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING V.O.C. CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, SPECCO MAKES NO REPRESNTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH V.O.C. STANDARDS/REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in section 3 describing each ingredient:

Skin Irritation, category 2	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
Eye Irritation, category 2	H319	Causes serious eye irritation
Skin corrosion, category 1B	H313	May be harmful if in contact with the skin

GHS Pictograms shown in Section 3 describing each ingredient:

GHS07

GHS05

Legend: * Refer to 49 CFR for possible exceptions and exemptions. Abbreviations: TLV= Threshold Limit Value. TWA= Time Weighted Average. STEL= Short Term Exposure Limit. N.A. = Not Applicable. N.D. = Not Determined, N.E. =Not Established. IATA= International Air Transport Association. IMDG= International Maritime Dangerous Goods.

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