Safety Data Sheet

Prepared in accordance with OSHA HCS (29 CFR 1910.1200)

AV-502-LV Injectable Bonding Epoxy LV (Part B)

SECTION 1: IDENTIFICATION

Product identifier: AV-502-LV Injectable Bonding Epoxy LV (Part B)
Other means of identification: Crack injection epoxy hardener
Recommended use: Hardener component of a two-part injectable bonding epoxy system.
Restrictions on use: For industrial and professional use only. Use only with the designated Part A.
Supplier: Avanti International
822 Bay Star Blvd.
Webster, TX 77598
USA
Phone: 281-486-5600
Fax: 281-486-7300
www.avantigrout.com
Emergency phone number: CHEMTREC: 1-800-424-9300 (U.S.)
CHEMTREC: +1-703-741-5970 (International)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:
in accordance with paragraph (d)(1)(i) of OSHA HCS (29 CFR 1910.1200)

Acute toxicity - oral:	Category 4
Acute toxicity - dermal:	Category 4
Serious eye damage:	Category 1
Flammable liquids:	Category 4
Reproductive toxicity:	Category 1B
Respiratory sensitization:	Category 1
Skin corrosion:	Category 1B
Skin sensitization:	Category 1

Label elements
Signal word: Danger

Hazard pictograms:

Hazard statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H227	Combustible liquid.
H360	May damage fertility or the unborn child.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection/protective footwear.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P370+P378	In case of fire: Use foam, dry chemical powder, or carbon dioxide to extinguish.
P501	Dispose of contents/container in accordance with applicable federal, state, and local regulations.

Substances that contribute to the classification:
Trade Secret; Propylidynetrimethanol, propoxylated, reaction products with ammonia; 2,2'-iminodiethylamine; piperazine

SECTION 2: HAZARD(S) IDENTIFICATION

Additional labeling:

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

Hazards not otherwise classified (HNOC):

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical description: Formulated polyamines

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200. Therefore, in accordance with Appendix D to 29 CFR 1910.1200, the product contains:

Chemical Name	CAS No.	Concentration
Trade Secret	Not applicable	25 - <50%
Propylidynetrimethanol, propoxylated, reaction products with ammonia	39423-51-3	25 - <50%
2,2'-iminodiethylamine	111-40-0	2.5 - <10%
piperazine	110-85-0	2.5 - <10%
Bisphenol A	80-05-7	1 - <2.5%
Trade Secret	Not applicable	1 - <2.5%

Other information:

Chemical Name	CAS No.	M-Factor
Bisphenol A	80-05-7	Acute: 1; Chronic: 10

SECTION 4: FIRST-AID MEASURES

General: Seek immediate medical attention and provide the attending medical personnel with this SDS.

If inhaled: Remove the affected person from the exposure area, move them to fresh air, and keep them at rest. If breathing is difficult or symptoms are severe, obtain immediate medical attention. Trained personnel should provide appropriate respiratory support if required.

In case of skin contact: Immediately remove contaminated clothing and footwear. Rinse the affected skin or shower with plenty of water and neutral soap. Because this product is corrosive, seek medical attention for burns or persistent symptoms. If clothing is adhered to damaged skin, do not remove it. Do not break blisters.

In case of eye contact: Immediately rinse cautiously with lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing and obtain immediate medical attention. Do not allow the affected person to rub the eyes.

If swallowed: Seek immediate medical attention and provide this SDS. Rinse the mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep the affected person at rest.

Most important symptoms/effects, acute and delayed: Acute effects may include severe skin burns, serious eye damage, throat irritation, abdominal pain, nausea, and vomiting. Ingestion may cause burns to the mouth, throat, and gastrointestinal tract. Inhalation may cause corrosive effects to the mucous membranes and upper respiratory tract and may cause allergy or asthma symptoms or breathing difficulties. Exposure may also cause an allergic skin reaction and may damage fertility or the unborn child. See Sections 2 and 11 for additional information.

Indication of immediate medical attention and special treatment needed, if necessary: Obtain immediate medical attention following eye contact or ingestion, significant skin exposure, or severe inhalation symptoms. No specific special treatment is identified.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use foam, dry chemical powder, or carbon dioxide (CO_2).

Unsuitable extinguishing media: Do not use a direct water jet.

SECTION 5: FIRE-FIGHTING MEASURES

Specific hazards arising from the chemical: Combustion or thermal decomposition may produce hazardous decomposition products that can be highly toxic and present a serious health risk.

Special protective equipment and precautions for firefighters: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA), as appropriate for the magnitude of the fire. Appropriate emergency fire-fighting and first-aid equipment should be readily available.

Additional provisions: As with any fire, prevent exposure to fire, smoke, fumes, and combustion products. Only properly trained personnel should conduct firefighting activities. Evacuate nonessential personnel from the fire area. Eliminate all sources of ignition. In case of fire, cool storage containers and tanks exposed to heat or flames with water spray. Prevent water and other extinguishing media from entering drains, sewers, surface waters, or other waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For non-emergency personnel: Avoid contact with the spilled product. Wear appropriate personal protective equipment as specified in Section 8. Evacuate the area and keep unnecessary and unprotected personnel away. Stop or isolate the leak or spill if this can be done safely.

For emergency responders: Wear appropriate protective equipment. Keep unprotected personnel away from the affected area. See Section 8 for personal protective equipment.

Environmental precautions: Prevent the product from entering drains, sewers, surface water, or groundwater.

Methods and materials for containment and cleaning up: For releases exceeding applicable reportable quantities (RQs) specified in Table 302.4, refer to 40 CFR 302 for reporting requirements and notify the National Response Center at (800) 424-8802. Prevent entry into drains, sewers, or watercourses. Absorb with sand or another suitable inert absorbent. Do not use sawdust or other combustible absorbents. Collect the material in appropriate containers and manage it in accordance with applicable regulations. See Section 13 for disposal considerations.

Small spills in water: Contain the spill using barriers or similar equipment. Use suitable absorbents for collection and manage the resulting waste in accordance with applicable regulations.

Large spills in water: If possible, contain the spill in open water using barriers or similar equipment. If containment is not possible, attempt to control its spread and collect the product using suitable mechanical means. Consult qualified experts before using dispersants and obtain any required approvals before use. Manage the resulting waste in accordance with applicable regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

General precautions: Handle in accordance with good industrial hygiene and safety practices. Avoid unnecessary contact with the product. Limit manual transfers to small quantities where practicable. Keep containers closed when not in use. Maintain good housekeeping practices.

Advice on protection against fire and explosion: Combustible liquid. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Minimize the generation and accumulation of static electricity during transfer. See Section 10.

General occupational hygiene: Pregnant women should not be exposed to this product. Do not eat or drink while handling the product. Wash hands thoroughly after handling. Provide ready access to emergency eyewash and shower facilities where exposure may occur.

Conditions for safe storage, including any incompatibilities:

General storage conditions: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Protect from heat, radiation, direct sunlight, and static electricity. Store away from food and food-contact materials. Keep away from strong acids, strong bases, and oxidizing materials. See Section 10 for additional information on stability and incompatibilities.

Specific storage requirements: Minimum temperature: 60°F (16°C)
Maximum temperature: 80°F (27°C)
Maximum storage time: 12 months

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: Substances whose occupational exposure limits must be assessed in the workplace:

Source / Substance	Limit type	Value
ACGIH TLV (2022) - 2,2´-iminodiethylamine (CAS 111-40-0)	TLV-TWA	1 ppm
ACGIH TLV (2022) - piperazine (CAS 110-85-0)	TLV-TWA	0.3 mg/m^3
ACGIH TLV (2022) - piperazine (CAS 110-85-0)	TLV-STEL	1 mg/m^3
California Table AC-1 - 2,2´-iminodiethylamine (CAS 111-40-0)	PEL	1 ppm / 4 mg/m^3

Appropriate engineering controls: Provide adequate general ventilation. Use local exhaust ventilation where needed to control airborne concentrations. Provide an eyewash station and emergency shower where there is a potential for eye or skin exposure.

Individual protection measures: Select personal protective equipment (PPE) based on the conditions of use and a workplace hazard assessment. Conduct hazard assessments in accordance with 29 CFR 1910.132.

Respiratory protection: If respiratory protection is required based on workplace conditions or a hazard assessment, use an appropriate NIOSH-approved respirator selected for the contaminants and exposure conditions. Respirators must be used in accordance with the manufacturer's instructions and OSHA 29 CFR 1910.134.

Skin/hand protection: Wear chemical-resistant chloroprene gloves. Manufacturer data identify a breakthrough time greater than 480 minutes and a thickness of 0.65 mm. The breakthrough time specified by the glove manufacturer must exceed the duration of product use. Do not apply protective creams after the product has contacted the skin. Because this product is a mixture of several substances, the resistance of the glove material cannot be predicted with complete reliability and should be verified before use. Use gloves in accordance with the manufacturer's instructions and OSHA 29 CFR 1910.138.

Eye/face protection: Wear chemical splash goggles and a face shield where there is a risk of splashing. Maintain protective equipment in accordance with the manufacturer's instructions and use in accordance with 29 CFR 1910.133.

Body protection: Wear disposable protective clothing and safety footwear suitable for chemical exposure. Replace protective clothing or footwear if damaged or deteriorated. Use foot protection in accordance with 29 CFR 1910.136.

Additional emergency measures: Where workplace exposure or a risk assessment indicates the need, provide readily accessible emergency eyewash and shower facilities.

Environmental exposure controls: Prevent spills or releases of the product, including leakage from containers. See Sections 6 and 7 for additional information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Not applicable*
Odor:	Aminic
Odor threshold:	Not applicable*
Melting point/freezing point:	Not applicable*
Boiling point:	Not applicable*
Flammability (solid, gas):	Not classified as flammable
Lower flammability limit:	Not applicable*
Upper flammability limit:	Not applicable*
Flash point:	>=194°F
Autoignition temperature:	615°F
Decomposition temperature:	Not applicable*
pH:	Not applicable*
Kinematic viscosity:	Not applicable*
Solubility in water:	Not applicable*
Partition coefficient n-octanol/water:	Not applicable*
Vapor pressure:	6 Pa at at 68°F; 49.6 Pa at at 122°F
Evaporation rate:	Not applicable*
Density:	996.2 kg/m3 at 68°F
Relative density:	0.98 at at 68°F
Vapor density:	Not applicable*
Particle characteristics:	Not applicable (liquid)

*Not applicable due to the nature of the product or because the property is not relevant to its hazard characteristics.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reactions are expected under recommended conditions of storage, handling, and use.

Chemical stability: Stable under recommended conditions of storage, handling, and use.

Possibility of hazardous reactions: Under recommended conditions, hazardous reactions that result in excessive temperature or pressure are not expected.

Conditions to avoid: Avoid excessive heat, direct sunlight/radiation, and conditions that may promote the accumulation of static electricity. Avoid temperatures outside the recommended storage range specified in Section 7.

Incompatible materials: Avoid contact with strong acids, strong bases, and oxidizing materials.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products are not expected. Thermal decomposition or combustion may produce carbon monoxide (CO), carbon dioxide (CO_2), and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Experimental toxicological data for the product as a whole are not available. The information below is based on available substance-specific toxicological data and mixture classification information provided by the manufacturer.

Information on likely routes of exposure: The likely routes of exposure include ingestion, inhalation, skin contact, and eye contact.

Potential health effects: Repeated or prolonged exposure, or exposure at concentrations above applicable occupational exposure limits, may result in adverse health effects depending on the route of exposure.

Ingestion: **Acute toxicity:** Harmful if swallowed. Ingestion may cause throat irritation, abdominal pain, nausea, and vomiting.
Corrosivity/Irritability: If swallowed, the product may cause corrosive burns and tissue damage. See Section 2 for additional information on related health effects.

Inhalation: **Acute toxicity:** Based on available data, the classification criteria for acute inhalation toxicity are not met. For more information, see Section 3.
Corrosivity/Irritability: Prolonged inhalation may be corrosive to mucous membranes and the upper respiratory tract.

Skin contact: Harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Carcinogenicity: Based on available data, the classification criteria are not met.

IARC: 2,2´,2´´-nitrilotriethanol (3).

NTP: Not applicable.

OSHA: Not applicable.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: May damage fertility or the unborn child.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization: May cause an allergic skin reaction.

Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see Section 3.

Specific target organ toxicity (STOT) - repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see Section 3.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Not applicable.

Interactive effects: No applicable information available.

Specific toxicology information on the substances:

Substance	Test	Concentration	Route	Species
Trade Secret	LD50	500 mg/kg	Oral	
	LD50	1100 mg/kg	Dermal	
Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3)	LD50	550 mg/kg	Oral	Rat
	LD50	1100 mg/kg	Dermal	Rabbit
2,2'-iminodiethylamine (CAS 111-40-0)	LD50	500 mg/kg	Oral	
	LD50	1100 mg/kg	Dermal	
Bisphenol A (CAS 80-05-7)	LD50	5100 mg/kg	Oral	Rat
	LD50	3000 mg/kg	Dermal	Rabbit
Piperazine (CAS 110-85-0)	LD50	2600 mg/kg	Oral	Rat
	LD50	8300 mg/kg	Dermal	Rabbit
Trade Secret	LD50	500 mg/kg	Oral	
	LD50	1100 mg/kg	Dermal	

SECTION 12: ECOLOGICAL INFORMATION

Experimental ecotoxicological data for the product as a whole are not available. Based on available data, the product does not meet the classification criteria for environmental hazards. Substance-specific ecotoxicological information is provided below.

Ecotoxicity:

Acute aquatic toxicity:

Substance	Test	Concentration	Organism
Trade Secret	LC50	15 mg/L (96 h)	Fish
	EC50	80 mg/L (48 h)	Daphnia magna
Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3)	EC50	13 mg/L (48 h)	Daphnia magna
	EC50	4 mg/L (72 h)	Pseudokirchneriella subcapitata
Bisphenol A (CAS 80-05-7)	LC50	4.6 mg/L (96 h)	Pimephales promelas
	EC50	3.8 mg/L (48 h)	Daphnia magna
Trade Secret	LC50	2190 mg/L (96 h)	Pimephales promelas
	EC50	58 mg/L (48 h)	Daphnia magna
	EC50	1000 mg/L (72 h)	Pseudokirchneriella subcapitata

Chronic aquatic toxicity:

Substance	Test	Concentration	Organism
Bisphenol A (CAS 80-05-7)	NOEC	>0.01 - 0.1 mg/L	Fish
	NOEC	>0.01 - 0.1 mg/L	Crustacean

Persistence and degradability:

Substance	Test Concentration	Test Period	% Biodegradable
Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3)	100 mg/L	28 days	5%
Bisphenol A (CAS 80-05-7)	100 mg/L	14 days	0%
Trade Secret	30 mg/L	28 days	0%

Bioaccumulative potential:

Substance	BCF	log Pow	Bioaccumulation potential
Bisphenol A (CAS 80-05-7)	67	3.32	Moderate

Mobility in soil:

Substance	Absorption/desorption		Volatility	
2,2'-Iminodiethylamine (CAS 111-40-0)	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry Soil	Not applicable
	Surface tension	4.164E-2 N/m (77°F)	Moist Soil	Not applicable
Piperazine (CAS 110-85-0)	Koc	Not applicable	Henry	Not applicable
	Conclusion	Not applicable	Dry Soil	Not applicable
	Surface tension	3.86E-3 N/m (455.77°F)	Moist Soil	Not applicable
Bisphenol A (CAS 80-05-7)	Koc	796	Henry	1.013E-6 Pa·m³/mol
	Conclusion	Low	Dry Soil	Not applicable
	Surface tension	3.76E-3 N/m (687.97°F)	Moist Soil	Not applicable
Trade Secret	Koc	37000	Henry	Not applicable
	Conclusion	Immobile	Dry Soil	Not applicable
	Surface tension	4.001E-2 N/m (77°F)	Moist Soil	Not applicable

Results of PBT and vPvB assessment: Not applicable

Other adverse effects: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Unused product, if discarded, may exhibit the RCRA characteristic of corrosivity. EPA hazardous waste number D002 may apply. It is the responsibility of the waste generator to determine whether the waste is hazardous based on applicable characteristics and listings.

Waste management: Manage and dispose of the product, residues, and contaminated materials in accordance with applicable federal, state, and local regulations. Do not discharge into drains, sewers, or waterways. Waste management and disposal should comply with applicable RCRA and EPA requirements. See Section 6 for accidental release measures and Section 8 for exposure controls and personal protection.

Applicable waste regulations: Dispose of waste in accordance with applicable federal, state, and local waste management requirements, including applicable RCRA requirements. State and local requirements may be more stringent than federal requirements.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT (49 CFR) - Land Transport:

UN number:	UN2735
UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; Propylidynetrimethanol, propoxylated, reaction products with ammonia)
Transport hazard class(es):	8
Label:	8
Packing group:	III
Marine pollutant:	Yes
Limited quantity:	5 L
U.S. domestic transport:	Except when all or part of the transportation is by vessel, requirements specific to marine pollutants do not apply to non-bulk packages transported by motor vehicle, rail car, or aircraft, in accordance with 49 CFR 171.4.

IMDG - Sea Transport:

UN number:	UN2735
UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; Propylidynetrimethanol, propoxylated, reaction products with ammonia)
Transport hazard class(es):	8
Label:	8
Packing group:	III
Marine pollutant:	Yes
Special regulations:	223, 274
EmS Codes:	F-A, S-B
Limited quantity:	5 L
Segregation group:	SGG18

IATA/ICAO - Air Transport:

UN number:	UN2735
UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; Propylidynetrimethanol, propoxylated, reaction products with ammonia)
Transport hazard class(es):	8
Label:	8
Packing group:	III

Additional Transport Information

Special precautions for user:	See Sections 7 and 10 for information on safe handling, storage conditions, conditions to avoid, and incompatible materials.
Transport in bulk (according to IMO instruments):	Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific to the product:

California Labor Code - Hazardous Substances List:	2,2'-iminodiethylamine (CAS 111-40-0)
California Proposition 65 - Reproductive harm:	Bisphenol A (CAS 80-05-7)
California Proposition 65 - Cancer:	Not applicable
Canada - Domestic Substances List (DSL):	Trade Secret (Not applicable); Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3); 2,2'-iminodiethylamine (CAS 111-40-0); piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)
Canada - Non-Domestic Substances List (NDSL):	Not applicable
CERCLA:	Not applicable
Clean Air Act - Hazardous Air Pollutants:	Not applicable
Massachusetts RTK:	2,2'-iminodiethylamine (CAS 111-40-0); piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)
Minnesota RTK:	2,2'-iminodiethylamine (CAS 111-40-0)
New Jersey RTK:	2,2'-iminodiethylamine (CAS 111-40-0); piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)
New York RTK:	2,2'-iminodiethylamine (CAS 111-40-0); piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)

SECTION 15: REGULATORY INFORMATION

NTP (National Toxicology Program):	Not applicable
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096):	Not applicable
Pennsylvania RTK:	2,2'-iminodiethylamine (CAS 111-40-0); Piperazine (CAS 110-85-0); Trade Secret (Not applicable)
Protective Action Criteria (PAC) with AEGLs, ERPGs, and TEELs:	Trade Secret (Not applicable); Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3); 2,2'-iminodiethylamine (CAS 111-40-0); Piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)
Rhode Island RTK:	Not applicable
SB-258 Cleaning Product Right to Know Act:	Piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7)
The Toxic Substances Control Act (TSCA):	Trade Secret (Not applicable); Propylidynetrimethanol, propoxylated, reaction products with ammonia (CAS 39423-51-3); 2,2'-iminodiethylamine (CAS 111-40-0); Piperazine (CAS 110-85-0); Bisphenol A (CAS 80-05-7); Trade Secret (Not applicable)
EPCRA Section 313 (40 CFR Part 372):	Bisphenol A (CAS 80-05-7)

SECTION 16: OTHER INFORMATION

SDS preparation information:

This Safety Data Sheet has been prepared in accordance with Appendix D to 29 CFR 1910.1200 - Safety Data Sheets.

Hazard statements referenced in Section 2:

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H360: May damage fertility or the unborn child.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H227: Combustible liquid.

Training advice:

Employees who may be exposed to hazardous chemicals should receive appropriate hazard communication training in accordance with 29 CFR 1910.1200.

Principal references:

Occupational Safety & Health Administration (OSHA)

Abbreviations and acronyms:

BCF: Bioconcentration factor
BOD5: 5-day biochemical oxygen demand
COD: Chemical oxygen demand
EC50: Effective concentration 50%
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods Code
Koc: Partition coefficient of organic carbon
LC50: Lethal concentration 50%
LD50: Lethal dose 50%
log Pow: Octanol/water partition coefficient

NFPA Rating:

Health: 3 Instability: 0
Flammability: 2 Special Hazards: None

SDS Prepared By:	Avanti International
Date of Preparation:	December 1, 2020
Date of Last Revision:	September 8, 2026
Disclaimer:	The information provided in this Safety Data Sheet is based on information believed to be accurate and reliable as of the date of preparation or revision. It is provided for guidance regarding the safe handling, use, storage, transportation, and disposal of this product. The conditions of use are beyond the control of Avanti International; therefore, users are responsible for determining the suitability of this information for their particular application and for complying with applicable federal, state, and local requirements.