Safety Data Sheet

Prepared in accordance with OSHA HCS (29 CFR 1910.1200)

AV-522 Crack Sealing Paste (Part A)

SECTION 1: IDENTIFICATION

Product identifier: AV-522 Crack Sealing Paste (Part A)
Other means of identification: Not applicable
Recommended use: Resin component of a two-part crack-sealing epoxy paste system.
Restrictions on use: For industrial and professional use only. Use only with the designated Part B hardener.
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)
This product contains crystalline silica; however, due to its liquid state, the crystalline silica does not require classification for specific target organ toxicity - repeated exposure (STOT RE).

Acute toxicity - oral:	Category 4
Acute toxicity - dermal:	Category 4
Carcinogenicity:	Category 1B
Serious eye damage:	Category 1
Reproductive toxicity:	Category 1B
Skin corrosion:	Category 1B
Skin sensitization:	Category 1
Specific target organ toxicity (STOT) - repeated exposure:	Category 1
Specific target organ toxicity (STOT) - repeated exposure (inhalation):	Category 2

Label elements
Signal word: Danger
Hazard pictograms:

Hazard statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure (inhalation).

Precautionary statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

SECTION 2: HAZARD(S) IDENTIFICATION

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.
P501	Dispose of contents/container in accordance with applicable federal, state, and local regulations.

Substances that contribute to the classification:
Quartz (1% < RCS < 10%); Nonylphenol; Trade Secret; Trade Secret
Additional labeling:

WARNING: This product can expose you to chemicals including Quartz (1% < RCS < 10%), which is known to the State of California to cause cancer, and 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 concentrations below applicable reporting limits. Specific chemical identities and/or concentrations have been withheld as trade secrets in accordance with 29 CFR 1910.1200(i).
In accordance with Appendix D to 29 CFR 1910.1200, the product contains:

Chemical Name	CAS No.	Concentration
Quartz (1% < RCS < 10%)	14808-60-7	50 - <75%
Nonylphenol	25154-52-3	10 - <25%
Trade Secret	Not applicable	10 - <25%
Trade Secret	Not applicable	1 - <2.5%
Synthetic Silicon Dioxide	112945-52-5	1 - <2.5%
Trade Secret	Not applicable	<1%

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, obtain medical attention following significant exposure or if burns or other symptoms occur. 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 their eyes.
If swallowed:	Seek immediate medical attention and provide this SDS. Do not induce vomiting, as vomiting may cause additional injury to the gastrointestinal tract and material entering the respiratory tract may cause harm**.** Rinse the mouth and throat. Do not give anything by mouth to an unconscious person unless directed by medical personnel. Keep the affected person at rest.
Most important symptoms/effects, acute and delayed:	Acute effects may include severe skin burns, serious eye damage, allergic skin reaction, throat irritation, abdominal pain, nausea, and vomiting. Prolonged inhalation may cause corrosive effects to the mucous membranes and upper respiratory tract. Delayed or repeated exposure may result in allergic skin reactions and other effects associated with carcinogenicity, reproductive toxicity, and specific target organ toxicity. 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 and as otherwise indicated above. No specific special treatment is identified.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable under normal conditions of storage, handling, and use. In case of fire, use extinguishing media appropriate for the surrounding fire; dry chemical powder (ABC) is preferred.

Unsuitable extinguishing media: No specific unsuitable extinguishing media identified.

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 appropriate protective clothing and self-contained breathing apparatus (SCBA), as necessary for the conditions of the fire.

Additional provisions: As with any fire, prevent human exposure to fire, smoke, fumes, and products of combustion. Only properly trained personnel should participate in firefighting activities. Evacuate nonessential personnel from the fire area. Eliminate sources of ignition. In case of fire, cool containers exposed to fire or excessive heat with water spray. Prevent fire-extinguishing runoff from entering waterways or other aqueous environments.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For non-emergency personnel: Isolate the spill or leak if this can be done without additional risk. 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.

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

Environmental precautions: This product is not classified as hazardous to the environment. Prevent the product from entering drains, sewers, surface waters, or groundwater.

Methods and materials for containment and cleaning up: Prevent entry into drains, sewers, or watercourses. Absorb the spill using 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 federal, state, and local regulations. See Section 13 for disposal considerations.

Small spills in water: Contain the spill using barriers or similar equipment. Use suitable absorbents to collect the product 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: Maintain good housekeeping and cleanliness. Avoid contact with skin and eyes and avoid unnecessary exposure to vapors or mist. Wear appropriate personal protective equipment as specified in Section 8. Handle and dispose of waste using safe methods; see Section 6.

Advice on protection against fire and explosion: The product is non-flammable under normal conditions of storage, handling, and use. During transfer, use slow transfer rates to minimize the generation of electrostatic charges that could affect flammable products. See Section 10 for information on conditions and materials to avoid.

General occupational hygiene: This product may damage fertility or the unborn child. Follow all precautions in Sections 2 and 8 to minimize exposure. Do not eat, drink, or smoke while handling the product. Wash hands thoroughly after handling. Emergency showers and eyewash facilities should be readily accessible where exposure may occur.

Technical recommendations to prevent environmental risks: Keep suitable inert absorbent material readily available for spill response. See Section 6.

Conditions for safe storage, including any incompatibilities:

General storage conditions: Avoid sources of heat, radiation, and static electricity. Keep away from food. See Section 10 for additional information concerning incompatible materials.

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) - Quartz (1% < RCS < 10%) (CAS 14808-60-7)	TLV-TWA	0.025 mg/m³
ACGIH TLV (2022) - Trade Secret	TLV-TWA	1 ppm
California Table AC-1 - Quartz (1% < RCS < 10%) (CAS 14808-60-7)	PEL	0.05 mg/m³
California Table AC-1 - Trade Secret	PEL	1 ppm / 4 mg/m³
NIOSH - Quartz (1% < RCS < 10%) (CAS 14808-60-7)	IDLH	25 mg/m³

Appropriate engineering controls: Provide effective general ventilation and, where necessary, local exhaust ventilation to maintain airborne concentrations below applicable exposure limits. Provide an eyewash station and emergency shower where there is a potential for eye or skin exposure.

Personal protection: 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: Use appropriate NIOSH-approved respiratory protection when ventilation is inadequate or when airborne concentrations may exceed applicable exposure limits. Select the respirator and cartridges based on the contaminants and conditions of exposure. Where air-purifying respirators are used for gases or vapors, cartridges must be replaced in accordance with an applicable end-of-service-life indicator or established cartridge change schedule. Use respirators in accordance with the manufacturer's instructions and OSHA 29 CFR 1910.134.

Skin/hand protection: Wear chemical-resistant nitrile gloves. Manufacturer data identify a breakthrough time greater than 480 minutes and a thickness of 0.4 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. Use gloves in accordance with the manufacturer's instructions and OSHA 29 CFR 1910.138. 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.

Eye/face protection: Wear appropriate eye protection. Use a face shield in combination with appropriate eye protection where there is a risk of splashing. Clean and maintain protective equipment in accordance with the manufacturer's instructions. Use eye and face protection in accordance with OSHA 29 CFR 1910.133.

Body protection: Wear disposable protective clothing suitable for chemical exposure. Replace contaminated or damaged protective clothing as appropriate.

Foot protection: Wear safety footwear suitable for protection against chemical exposure. Replace footwear at any sign of damage or deterioration. Use foot protection in accordance with the manufacturer's instructions and OSHA 29 CFR 1910.136.

Additional emergency measures: Provide readily accessible emergency shower and eyewash facilities in areas where exposure to the product may occur. Emergency eyewash and shower equipment should comply with applicable workplace requirements and recognized standards, such as ANSI/ISEA Z358.1.

Environmental exposure controls: Prevent releases of the product to the environment. Use appropriate measures to prevent spills and leakage from containers. See Sections 6 and 7 for additional information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid (paste)
Color: Black
Odor: Ammoniacal
Odor threshold: Not applicable*
Melting point/freezing point: Not applicable*
Boiling point: >300°F
Flammability (solid, gas): Not classified as flammable
Lower flammability limit: Not applicable*
Upper flammability limit: Not applicable*
Flash point: >200°F
Autoignition temperature: 572°F
Decomposition temperature: Not applicable*
pH: Not applicable*
Kinematic viscosity: >20.5 mm^2/s at 104°F

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Solubility in water:	Not applicable*
Partition coefficient n-octanol/water:	Not applicable*
Vapor pressure:	13 Pa at 68°F; 107.46 Pa (0.11 kPa) at 122°F
Evaporation rate:	Not applicable*
Density:	1767.3 kg/m^3 at 68°F
Relative density:	1.66 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, 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 and strong bases. Use caution with 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 (CO2), 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.
Dangerous health implications:	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. Corrosive effects may cause burns to the mouth, throat, and gastrointestinal tract.
Inhalation:	Acute toxicity: Based on available data, the classification criteria for acute inhalation toxicity are not met. 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:	May cause cancer.
IARC:	Quartz (1% < RCS < 10%) (Group 1); Carbon black (Group 2B).
NTP:	Quartz (1% < RCS < 10%) (CAS 14808-60-7)
OSHA:	Quartz (1% < RCS < 10%) (CAS 14808-60-7)
Mutagenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	May damage fertility or the unborn child.
Respiratory sensitization:	Based on available data, the classification criteria are not met.
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.
Specific target organ toxicity (STOT) - repeated exposure:	Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure (inhalation).
Aspiration hazard:	Based on available data, the classification criteria are not met.
Interactive effects:	No applicable information available.
Other information:	Not applicable.

Specific toxicology information on the substances:

Substance	Test	Result	Route	Species
Trade Secret	LD50	500 mg/kg	Oral	
	LD50	866 mg/kg	Dermal	Rabbit
Trade Secret	LD50	500 mg/kg	Oral	
	LD50	1100 mg/kg	Dermal	
Nonylphenol	LD50	1600 mg/kg	Oral	Rat

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(CAS 25154-52-3)	LD50	2140 mg/kg	Dermal	Rabbit
Synthetic Silicon Dioxide	LD50	10000 mg/kg	Oral	Rat
(CAS 112945-52-5)	LD50	5100 mg/kg	Dermal	Rabbit
Trade Secret	LD50	5100 mg/kg	Oral	Rat
	LD50	3000 mg/kg	Dermal	Rabbit

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	Result	Species	Group
Nonylphenol (CAS 25154-52-3)	LC50	0.135 mg/L (96 h)	Pimephales promelas	Fish
	EC50	140 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1.3 mg/L (72 h)	Scenedesmus subspicatus	Algae
Trade Secret	LC50	2190 mg/L (96 h)	Pimephales promelas	Fish
	EC50	58 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	>1000 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Synthetic Silicon Dioxide (CAS 112945-52-5)	LC50	10000 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Not applicable		
Trade Secret	LC50	4.6 mg/L (96 h)	Pimephales promelas	Fish
	EC50	3.8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not applicable		

Chronic aquatic toxicity:

Substance	Test	Result	Species	Group
Trade Secret	NOEC	>0.01 - 0.1 mg/L		Fish
	NOEC	>0.01 - 0.1 mg/L		Crustacean

Persistence and degradability:

Substance	Test Concentration	Test Period	Biodegradation
Nonylphenol (CAS 25154-52-3)	100 mg/L	14 days	0%
Trade Secret	30 mg/L	28 days	0%
Trade Secret	100 mg/L	14 days	0%

Bioaccumulative potential:

Substance	BCF	log Pow	Bioaccumulation potential
Nonylphenol (CAS 25154-52-3)	90	4.77	Moderate
Trade Secret	3	-1.48	Low
Trade Secret	67	3.32	Moderate

Mobility in soil:

Substance	Koc	Mobility conclusion
Nonylphenol (CAS 25154-52-3)	Not applicable	Not applicable
Trade Secret	37,000	Immobile
Trade Secret	Not applicable	Not applicable
Trade Secret	796	Low

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.

Applicable waste regulations: Refer to 40 CFR Parts 239 through 282 and applicable state and local waste management 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:	AMINES, LIQUID, CORROSIVE, N.O.S. (Nonylphenol)
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:	AMINES, LIQUID, CORROSIVE, N.O.S. (Nonylphenol)
Transport hazard class(es):	8
Label:	8
Packing group:	III
Marine pollutant:	Yes
Special provisions:	274, 223
EmS Codes:	F-A, S-B
Limited quantity:	5 L
Segregation group:	SGG18

IATA/ICAO - Air Transport:

UN number:	UN2735
UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Nonylphenol)
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:	Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable)
California Proposition 65 - Reproductive harm:	Bisphenol A (CAS 80-05-7)
California Proposition 65 - Cancer:	Quartz (1% < RCS < 10%) (CAS 14808-60-7)
Canada - Domestic Substances List (DSL):	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable); Trade Secret (Not applicable); Synthetic Silicon Dioxide (CAS 112945-52-5); 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:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable); Trade Secret (Not applicable); Trade Secret (Not applicable)
Minnesota RTK:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Trade Secret (Not applicable)
New Jersey RTK:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Trade Secret (Not applicable); Trade Secret (Not applicable); Trade Secret (Not applicable)
New York RTK:	Trade Secret (Not applicable); Trade Secret (Not applicable); Trade Secret (Not applicable)
NTP (National Toxicology Program):	Quartz (1% < RCS < 10%) (CAS 14808-60-7)
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096):	Quartz (1% < RCS < 10%) (CAS 14808-60-7)

SECTION 15: REGULATORY INFORMATION

Pennsylvania RTK:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable); Trade Secret (Not applicable)
Protective Action Criteria (PAC) with AEGLs, ERPGs, and TEELs:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable); Trade Secret (Not applicable); Synthetic Silicon Dioxide (CAS 112945-52-5); Trade Secret (Not applicable)
Rhode Island RTK:	Not applicable
SB-258 Cleaning Product Right to Know Act:	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable)
The Toxic Substances Control Act (TSCA):	Quartz (1% < RCS < 10%) (CAS 14808-60-7); Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable); Trade Secret (Not applicable); Trade Secret (Not applicable)
EPCRA Section 313 (40 CFR Part 372):	Nonylphenol (CAS 25154-52-3); Trade Secret (Not applicable)

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.
H372: Causes damage to organs through prolonged or repeated exposure.
H350: May cause cancer.
H373: May cause damage to organs through prolonged or repeated exposure (inhalation).
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
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: Organic carbon-water partition coefficient
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.