

Section 1: Identification**Product Name:** QCPUA-100 Side B**Product Code:** POL133**Material Uses:** Component of a Polyurea System**Supplier:**

Pipe Lining Supply, Inc
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Springfield, MO 65810
417-719-7172



Emergency Contact: USA – ChemTel: 800-255-3924
Outside USA – ChemTel 813-248-0585

Section 2: Hazards Identification**Physical State:** Liquid

Precautionary Statements: Do not breathe dust/fumes/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If eye irritation persists, get medical advice/attention. Rinse mouth. Collect spillage. Dispose of contents/container to an approved waste disposal plant.

Classification of the Substance or Mixture:

ENVIRONMENTAL, Hazards to the Aquatic Environment – Acute, 1
ENVIRONMENTAL, Hazards to the Aquatic Environment – Chronic, 1
HEALTH, Specific Target Organ Toxicity – Repeated Exposure, 2
HEALTH, Serious Eye Damage/Eye Irritation, 2 A
HEALTH, Acute Toxicity, 4 Oral

GHS Label Elements:**Hazard Pictograms:****Signal Word:** WARNING

Hazard Statements: Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
May cause damage to organs through prolonged or repeated exposure.
Causes serious eye irritation.
Harmful if swallowed.

See toxicological information (Section 11).

General Information: Read the entire SDS for a more thorough evaluation of the hazards.

Hazards Not Otherwise Classified (HNOC) or not Covered by GHS:

Route of Entry: Eyes, ingestion, inhalation, skin.

Target Organs: Skin, respiratory system, eyes.

Inhalation: Heating, spraying, foaming or otherwise mechanically dispersing operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Minimal respiratory tract irritation may occur with exposure to a large amount of material.

Skin Contact: Prolonged or repeated exposure can cause skin irritation or dermatitis in some individuals.

Eye Contact: May cause watering of the eye and irritation of the conjunctiva.

Ingestion: May cause nausea or vomiting.

HMIS (USA): Health: 1; Flammability: 1; Physical Hazards: 0; Personal Protection: X

Insignificant: 0; Slight: 1; Moderate: 2; High: 3; Extreme: 4; X: Consult your supervisor for special instructions

Section 3: Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
2-Propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo) tetrakis-	102-60-3	10-30
1,2-Ethanediol	107-21-1	0-6
Benzenamine, 4,4'-methylenebis[N-(1-methylpropyl)-	5285-60-9	0-20
Benzenediamine, ar, ar-diethyl-ar-methyl-	68479-98-1	0-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4: First Aid Measures

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Use fingers to assure that the eyelids are separated and that the eye is being irrigated. Get immediate medical attention.

Skin Contact: Remove all contaminated clothing and shoes. Wash skin with large quantities of water and soap. Wash clothing before wearing again and clean shoes. If redness, itching or a burning sensation develops or persists after the area is washed, consult a physician.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. This material is an aspiration hazard. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5: Firefighting Measures

Flash Point and Method Used: >200°F (>93°C), COC

Suitable Extinguishing Media: Dry powder, foam, carbon dioxide. Use cold water spray to cool fire exposed containers to minimize risk of rupture. A solid stream of water directed onto hot burning liquid could cause frothing. If possible, contain runoff water.

NFPA (USA): Health: 1; Fire Hazard: 1; Reactivity: 0; Specific Hazard: None

Minimal: 0; Slight: 1; Moderate: 2; Serious: 3; Severe: 4

Section 6: Accidental Release Measures

Spill: Remove all sources of flames, heating elements, gas engines, etc. Emergency cleanup personnel should wear chemical goggles, rubber or plastic gloves, and clothing as required to protect against contact. Prevent spreading and contamination of surface waters and drinking supplies. Notify local health officials and other appropriate agencies if such contamination should occur.

Cleanup: With adequate ventilation and appropriate personal protective equipment, cover the area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers. Ventilate area to remove the remaining vapors.

For major spills in the USA, call ChemTel: 800-255-3924, and in Canada, call ChemTel 813-248-0585.

Section 7: Handling and Storage

Handling: Do not smoke or use naked lights, open flames, space heaters or other ignition sources near pouring, frothing or spraying operations. If contamination with isocyanates is suspected, do not reseal containers.

Storage Requirements: When stored between 60°F and 85°F (15°C and 30°C) in sealed containers, typical shelf life is six months or more from the date of manufacture. Opened containers must be handled properly to prevent moisture pickup.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient	Exposure Limits	
	OSHA Table Z-1	ACGIH TLV
1,2-Ethanediol	C 50ppm, 125 mg/m ³	C 100 mg/m ³

Consult local authorities for acceptable exposure limits.

Engineering Controls: All ventilation should be designed in accordance with OSHA Standard (29 CFR 1910.94).

Individual Protection Measures: HMIS PP, X: Consult your supervisor for special instructions.

Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash Contact Material: Nitrile rubber. Minimum layer thickness: 0.4 mm. Break through time: 120 min. Material tested: Camatril (KCL 730/Aldrich Z677442, Size M). Test Method: EN374. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific scenario.

Eye/Face Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly before breaks and at the end of the work day.

Section 9: Physical and Chemical Properties

Physical State: Liquid
Appearance: Neutral
Odor: Mild
Odor Threshold: No data available
pH: No data available
Boiling Point: >500°F (260°C)
Melting/Freezing Point: No data available
Flash Point and Method Used: >200°F (>93°C), COC
Evaporation Rate: <1
Lower and Upper Explosive Limits: No data available
Vapor Pressure: No data available
Vapor Density: >1
Specific Gravity/Density: 8.68 lbs/gal
Solubility in Water: No data available
Partition Co-Efficient: No data available
Auto-Ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Flammability: None

Section 10: Stability and Reactivity

Reactivity: No specific data.
Chemical Stability: Product is stable under normal conditions.
Conditions to Avoid: No specific data.
Materials to Avoid: No specific data.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition: Under normal storage conditions, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrilo)tetrakis- (102-60-3):

Acute Toxicity: LD50 Oral – no data available; LC50 Inhalation – no data available; LD50 Dermal – no data available.
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Eye Irritation: No data available
Respiratory or Skin Sensitization: May cause allergic skin reaction.
Germ Cell Mutagenicity: No data available
Carcinogenicity: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity: No data available
Teratogenicity: No data available
Specific Organ Toxicity – Single Exposure: No data available
Specific Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available
Potential Health Effects: May be harmful if inhaled. May cause respiratory trace irritation. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.
Synergistic Effects: No data available
Additional Information: RTECS: UB5604000
1,2-Ethandiol (107-21-1):

Acute Toxicity: LD50 Oral – rat – 4700 mg/kg; LC50 Inhalation – no data available; LD50 Dermal – rabbit – 10,626 mg/kg.

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Eye Irritation: Rabbit, Result: Mild eye irritation – 24 h

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: This product is or contains a component that is probably not carcinogenic based on its IARC, ACGIH, NTP or EPA classification. No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific Organ Toxicity – Single Exposure: No data available

Specific Organ Toxicity – Repeated Exposure: No data available

Aspiration Hazard: No data available

Potential Health Effects: May be harmful if inhaled. May cause respiratory trace irritation. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.

Synergistic Effects: No data available

Additional Information: RTECS: KW2975000. When ingested, early symptoms mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, and severe metabolic acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects. Central nervous system – irregularities – based on human evidence.

Section 12: Ecological Information

2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrolo)tetrakis- (102-60-3):

Toxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: No data available

Other Adverse Effects: No data available

1,2-Ethandiol (107-21-1):

Toxicity: Toxicity to fish LC50 – Oncorhynchus mykiss (rainbow trout) – 18,500 mg/l – 96h; LC50 – Leuciscus idus (golden orfe) - >10,000 mg/l – 48h; NOEC – Pimephales promelas (fathead minnow) – 32,000 mg/l – 7d; NOEC – Pimephales promelas (fathead minnow) – 39,140 mg/l – 96h; Toxicity to daphnia and other aquatic invertebrates EC50 – Daphnia magna (water flea) – 74,000 mg/l – 24h; NOEC – Daphnia – 24,000 mg/l – 48h; LC50 – Daphnia magna (water flea) – 41,000 mg/l – 48h

Persistence and Degradability: Ratio BOD/ThBOD 0.78%

Bioaccumulative Potential: Does not bioaccumulate. Bioaccumulation other fish – 61 d – 50 mg/l

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other Adverse Effects: No data available

Section 13: Disposal Considerations

Disposal: Any disposal practice must be in compliance with all federal, state/provincial, and local laws and regulations. Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate. Waste characterization and

disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. Do not allow material to enter sewers, a body of water, or contact the ground. Refer to RCRA 40 CFR 261, and/or any other appropriate federal, state/provincial, or local requirements for proper classification information.

Disposal should be in accordance with applicable regional, national, and local laws and regulations

Section 14: Transport Information

Proper Shipping Name:

DOT: Not regulated

TDG: Not regulated

IMDG: Not regulated

IATA: Not regulated

Section 15: Regulatory Information

2-Propanol, 1,1',1'',1'''-(1,2-ethanedioldinitrolo)tetrakis- (102-60-3): Toxic Substances Control Act

1,2-Ethandiol (107-21-1): Superfund Clean Up Substance, Hazardous Air Pollutants, Massachusetts Hazardous Substances List, New Jersey Right-to-Know Hazardous Substances, OSHA Workplace Air Contaminants, Pennsylvania Right-to-Know List of Hazardous Substances, SARA 313 Title III Toxic Chemicals, Toxic Substances Control Act, Texas Air Contaminants with Health Effects Screening Level

Benzenamine, 4,4'-methylenebis[N-(1-methylpropyl)- (5285-60-9): Toxic Substances Control Act

Benzenediamine, ar,ar-diethyl-ar-methyl- (68479-98-1): Toxic Substances Control Act

Section 16: Other Information

Preparation Date: November 1, 2017

Disclaimer: The data set forth in this sheet is based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Pipe Lining Supply, Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.

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User's Responsibility: A bulletin as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be passed on to your customers and employees, as the case may be.

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