



SAFETY DATA SHEET

DP 2502 Black Water Based Duct Liner Adhesive

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Section 1 – Product and Company Identification

Product identifier

Product Name: Water Based Duct Liner Adhesive
Product Code: DP 2502 Black

Intended use of the product

Duct Liner Adhesive

Restrictions on Use

For industrial use only.

Supplier's Details

Manufactured By: Design Polymerics
Address: 3301 W. Segerstrom Ave., Santa Ana, CA 92704
Information Phone: (714) 432-0600
Website: www.designpoly.com

Emergency telephone number

ChemTel LLC: (800) 255-3924 (24 Hrs)

Section 2 - Hazard Identification

Hazard Classifications

GHS Classification

Not Classified

Label Elements

GHS Labeling

Hazard Statements

H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H332 - Harmful if inhaled.

Precautionary Statements

P261 - Avoid breathing vapors, mist, or spray.
P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Full text of H-statements: see section 16

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity

No additional information available



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Section 3 – Composition/Information on Ingredients

Mixtures

| Ingredient | Synonym(s) | C.A.S. No. | % by Wt | Note |
|---|---|------------|---------|---------------|
| Limestone | Calcium Carbonate | 1317-65-3 | 15 - 25 | * (See below) |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) | Magnesium Silicate / Talc (containing no asbestos fibers) | 14807-96-6 | 1 - 5 | * (See below) |
| Quartz | Crystalline silica, quartz | 14808-60-7 | < 0.2 | * (See below) |
| Ethanolamine | Ethanol, 2-amino- / Monoethanolamine | 141-43-5 | 0.1 - 1 | |
| Triethanolamine | Ethanol, 2,2',2''-nitrilotri- / TEA | 102-71-6 | ≤ 0.1 | |
| Carbon Black | C.I. 77266 / C.I. Pigment Black 6 / Lampblack | 1333-86-4 | ≤ 0.2 | * (See below) |

* This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of this product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains crystalline silica (quartz) which is hazardous when present as airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure.

Any remaining ingredients (to comprise 100% of the product) should be considered a proprietary blend of non-hazardous substances, or materials below threshold reporting limits.

Section 4 – First Aid Measures

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur, go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: This product contains crystalline silica (quartz). The crystalline silica is bound in the matrix of the liquid product and under normal conditions of use dust is not expected to be produced. If dried, processed, and dust is released into the air repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. May produce an allergic reaction.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at



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hand.

Section 5 – Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Under fire conditions this material may produce hazardous carbon dioxide (CO₂), carbon monoxide (CO), Calcium oxides, Silica compounds, various low molecular weight hydrocarbons, and smoke.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing vapor, mist, or spray. Do not get in eyes, on skin, or on clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

Section 7 – Handling and Storage

Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

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Avoid prolonged contact with eyes, skin, and clothing. Avoid breathing mist, spray, or vapors.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s): Duct Liner Adhesive

Section 8 – Exposure Controls/Personal Protection

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL).

REL - Recommended Exposure Limits

TLV - Threshold Limit Value

Exposure Limits

Components with workplace control parameters:

Carbon black (1333-86-4)

| | |
|--------------------------|--|
| ACGIH OEL TWA: | 3 mg/m ³ (inhalable particulate matter) |
| ACGIH chemical category: | Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| OSHA PEL (TWA) [1]: | 3.5 mg/m ³ |
| NIOSH REL (TWA): | 3.5 mg/m ³ |
| | 0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic hydrocarbons) |
| IDLH: | 1750 mg/m ³ |

Limestone (1317-65-3)

| | |
|---------------------|--|
| OSHA PEL (TWA) [1]: | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| NIOSH REL (TWA): | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |

Crystalline Silica (Quartz) (14808-60-7)

| | |
|--------------------------|--|
| ACGIH OEL TWA: | 0.025 mg/m ³ (respirable particulate matter) |
| ACGIH chemical category: | A2 - Suspected Human Carcinogen |
| OSHA PEL (TWA) [1]: | 50 µg/m ³ (Respirable crystalline silica) |
| OSHA PEL (TWA) [2]: | (250)/(%SiO ₂ +5) mppcf TWA (respirable fraction) (10)/(%SiO ₂ +2) mg/m ³ TWA (respirable fraction) (For any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or otherwise not in effect, See 20 CFR 1910.1000 TABLE Z-3) |
| NIOSH REL (TWA): | 0.05 mg/m ³ (respirable dust) |
| IDLH: | 50 mg/m ³ (respirable dust) |

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

| | |
|--------------------------|---|
| ACGIH OEL TWA: | 2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter) |
| ACGIH chemical category: | Not Classifiable as a Human Carcinogen containing no asbestos fibers |

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| OSHA PEL (TWA) [2]: | 20 mppcf ((not containing asbestos) containing <1% quartz, if 1% quartz or more; use quartz limit) (See 29 CFR 1910.1000 TABLE Z-3) |
| NIOSH REL (TWA): | 2 mg/m ³ (containing no Asbestos and <1% Quartz-respirable dust) |
| IDLH: | 1000 mg/m ³ (containing no asbestos and <1% quartz) |

Triethanolamine (102-71-6)

ACGIH OEL TWA: 5 mg/m³

Ethanolamine (141-43-5)

| | |
|-----------------------|----------------------|
| ACGIH OEL TWA [ppm]: | 3 ppm |
| ACGIH OEL STEL [ppm]: | 6 ppm |
| OSHA PEL (TWA) [1]: | 6 mg/m ³ |
| OSHA PEL (TWA) [2]: | 3 ppm |
| NIOSH REL (TWA): | 8 mg/m ³ |
| NIOSH REL TWA [ppm]: | 3 ppm |
| NIOSH REL (STEL): | 15 mg/m ³ |
| NIOSH REL STEL [ppm]: | 6 ppm |
| IDLH [ppm]: | 30 ppm |

Exposure Controls

Appropriate Engineering Controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink, or smoke.

Section 9 – Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

| | |
|----------------|---------------------|
| Physical State | : Liquid |
| Appearance | : Black |
| Odor | : Mild/Sweet |
| Odor Threshold | : No data available |

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| | |
|---|---------------------|
| pH | : 8.0 – 9.5 |
| Evaporation Rate | : Same as water |
| Melting Point | : No data available |
| Freezing Point | : 32 °F (0 °C) |
| Boiling Point | : 212 °F (100 °C) |
| Flash Point | : Not applicable |
| Auto-ignition Temperature | : Not applicable |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Lower Flammable Limit | : Not applicable |
| Upper Flammable Limit | : Not applicable |
| Vapor Pressure | : Same as water |
| Relative Vapor Density at 20°C | : No data available |
| Relative Density | : 10 – 10.5 |
| Specific Gravity | : No data available |
| Solubility in Water | : Miscible |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity | : No data available |

Section 10 – Stability and Reactivity

Reactivity:

Hazardous reactions will not occur under normal conditions.

Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials. Do not allow product to dry out.

Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products:

Not expected to decompose under ambient conditions.

Section 11 – Toxicological Information

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Not classified

pH: 8.0 – 9.5

Eye Damage/Irritation: Not classified

pH: 8.0 – 9.5

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Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: This product contains crystalline silica (quartz). The crystalline silica is bound in the matrix of the liquid product and under normal conditions of use dust is not expected to be produced. If dried, processed, and dust is released into the air repeated exposure to respirable (airborne) crystalline silica dust may cause lung damage in the form of silicosis, lung cancer, or respiratory irritation. Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|---|---|
| Crystalline Silica (Quartz) (14808-60-7) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rat | > 5000 mg/kg |
| IARC Group | 1 |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |
| Ethanolamine (141-43-5) | |
| LD50 Oral Rat | 1720 mg/kg |
| LD50 Dermal Rabbit | 1025 mg/kg |
| LC50 Inhalation Rat | > 1.3 mg/l (Exposure time: 6 h) |
| ATE US/CA (dermal) | 1,025.00 mg/kg body weight |
| ATE US/CA (vapors) | 11.00 mg/l/4h |
| ATE US/CA (dust, mist) | 1.50 mg/l/4h |
| Triethanolamine (102-71-6) | |
| LD50 Oral Rat | 6400 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| IARC Group | 3 |
| Carbon black (1333-86-4) | |
| LD50 Oral Rat | > 8000 mg/kg |
| LC50 Inhalation Rat | > 4.6 mg/m ³ (Exposure time: 4 h) |
| Talc (Mg₃H₂(SiO₃)₄) (14807-96-6) | |
| IARC Group | 3 |
| National Toxicology Program (NTP) Status | Evidence of Carcinogenicity. |

Section 12 – Ecological Information

Toxicity

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Ecology - General: Not classified.

| | |
|---------------------------------|--|
| Carbon black (1333-86-4) | |
| EC50 - Crustacea [1] | 5600 mg/l (Exposure time: 24 h - Species: Daphnia magna) |

| | |
|---|--|
| Talc (Mg₃H₂(SiO₃)₄) (14807-96-6) | |
| LC50 Fish 1 | > 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static]) |

| | |
|-----------------------------------|--|
| Triethanolamine (102-71-6) | |
| LC50 Fish 1 | 10600 (10600 – 13000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1] | 1386 mg/l |
| LC50 Fish 2 | 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 algae | 169 mg/l |
| NOEC Chronic Crustacea | 16 mg/l |

| | |
|--------------------------------|--|
| Ethanolamine (141-43-5) | |
| LC50 Fish 1 | 227 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1] | 65 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 Fish 2 | 3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| ErC50 algae | 2.5 mg/l |

Persistence and Degradability

| | |
|--------------------------------------|------------------|
| Persistence and Degradability | Not established. |
|--------------------------------------|------------------|

Bioaccumulative Potential

| | |
|----------------------------------|------------------|
| Bioaccumulative Potential | Not established. |
|----------------------------------|------------------|

| | |
|---|----------------------------|
| Talc (Mg₃H₂(SiO₃)₄) (14807-96-6) | |
| BCF Fish 1 | (no known bioaccumulation) |

| | |
|--|------------------|
| Ethanolamine (141-43-5) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.91 (at 25 °C) |

| | |
|--|-------|
| Triethanolamine (102-71-6) | |
| BCF Fish 1 | 3.9 |
| Partition coefficient n-octanol/water (Log Pow) | -2.53 |

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

Section 13 – Disposal Considerations

Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, and federal regulations.

Ecology - Waste Materials: Avoid release to the environment.

Section 14 – Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was

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issued.

- DOT:** Not regulated for transport
- IMDG:** Not regulated for transport
- ATA:** Not regulated for transport
- TDG:** Not regulated for transport

Section 15 – Regulatory Information

**US Federal Regulations
Inventory Status**

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

| | |
|--|---|
| SARA Section 311/312 Hazard Classes | Health hazard – Respiratory or skin sensitization |
|--|---|

**U.S. State Regulations
California Proposition 65**



WARNING: This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| Chemical Name (CAS No.) | Carcinogenicity | Developmental Toxicity | Female Reproductive Toxicity | Male Reproductive Toxicity |
|--------------------------|-----------------|------------------------|------------------------------|----------------------------|
| Quartz (14808-60-7) | X | | | |
| Carbon black (1333-86-4) | X | | | |

The following components appear on one or more of the following U.S. State Right to Know or hazardous substances lists:

| Component | CAS No. | MA | MN | NJ | PA | RI |
|-----------------------------|------------|-----|-----|-----|-----|-----|
| Carbon black | 1333-86-4 | Yes | | Yes | Yes | |
| Limestone | 1317-65-3 | Yes | Yes | Yes | Yes | Yes |
| Crystalline Silica (Quartz) | 14808-60-7 | Yes | | Yes | Yes | Yes |
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | Yes | | Yes | Yes | |
| Triethanolamine | 102-71-6 | Yes | | Yes | Yes | |
| Ethanolamine | 141-43-5 | Yes | | Yes | Yes | |

Section 16 – Other Information

Date of Preparation or Latest Revision : April 19, 2022. Supersedes all previous

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

| | |
|------|------------------------------|
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H332 | Harmful if inhaled |

Disclaimer: The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Design Polymerics from its suppliers, and because Design Polymerics has no control over the conditions of handling and use, Design Polymerics makes no warranty, express or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Design Polymerics assumes no responsibility from use or reliance thereon. It is the responsibility of the user of Design Polymerics products to comply with all applicable Federal, State and Local Laws and



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Regulations.

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