



SAFETY DATA SHEET

DP 2500 Clear Water Based Duct Liner Adhesive

Revision Date: March 31, 2022

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Section 1 – Product and Company Identification

Product identifier

Product Name: Water Based Duct Liner Adhesive
Product Code: DP 2500

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.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P273 - Avoid release to the environment.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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
Ethanolamine	Ethanol, 2-amino- / Monoethanolamine	141-43-5	0.1 - 1	
Triethanolamine	Ethanol, 2,2',2''-nitrilotri- / TEA	102-71-6	≤ 0.1	
Acetaldehyde	Acetic aldehyde / Ethyl aldehyde	75-07-0	≤ 0.05	
Vinyl acetate	Acetic acid, ethenyl ester / 1-Acetoxyethylene	108-05-4	< 0.02	

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.

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: None known.

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 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.



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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), Nitrogen oxides, Aldehydes, Ketones, various low molecular weight hydrocarbons, and smoke.

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

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



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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:

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

Acetaldehyde (75-07-0)

ACGIH OEL Ceiling [ppm]:	25 ppm
ACGIH chemical category:	Suspected Human Carcinogen
OSHA PEL (TWA) [1]:	360 mg/m ³
OSHA PEL (TWA) [2]:	200 ppm
IDLH [ppm]:	2000 ppm

Vinyl acetate (108-05-4)

ACGIH OEL TWA [ppm]:	10 ppm
ACGIH OEL STEL [ppm]:	15 ppm
ACGIH chemical category:	Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL (Ceiling):	15 mg/m ³
NIOSH REL C [ppm]:	4 ppm

Triethanolamine (102-71-6)

ACGIH OEL TWA:	5 mg/m ³
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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.





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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	: Milky White
Odor	: Mild/Sweet
Odor Threshold	: No data available
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	: 8.2 – 9.0
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).



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Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

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

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: None known.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

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



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Acetaldehyde (75-07-0)	
LD50 Oral Rat	660 mg/kg
LD50 Dermal Rabbit	3540 mg/kg
LC50 Inhalation Rat	13000 ppm/4h
IARC Group	1, 2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Vinyl acetate (108-05-4)	
LD50 Oral Rat	2900 mg/kg
LD50 Dermal Rabbit	2335 mg/kg
LC50 Inhalation Rat	11.4 mg/l/4h
LC50 Inhalation Rat	3680 ppm/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Section 12 – Ecological Information

Toxicity

Ecology - General: Harmful to aquatic life with long lasting effects.

Ethanalamine (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

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

Acetaldehyde (75-07-0)	
LC50 Fish 1	28 (28 – 34) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3.64 (3.64 – 6.15) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [2]	48.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Algae	1.9 mg/l

Vinyl acetate (108-05-4)	
LC50 Fish 1	14 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 Fish 2	15.04 (15.04 – 21.54) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
NOEC Chronic Algae	0.2 mg/l

Persistence and Degradability



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Persistence and Degradability	Not established.
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Bioaccumulative Potential

Bioaccumulative Potential	Not established.
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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

Acetaldehyde (75-07-0)	
Partition coefficient n-octanol/water (Log Pow)	0.5

Vinyl acetate (108-05-4)	
Partition coefficient n-octanol/water (Log Pow)	0.73

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. Keep out of sewers and waterways.

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 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 - Carcinogenicity
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Acetaldehyde (75-07-0)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb.

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SARA Section 313 - Emission Reporting	0.1 %
Vinyl acetate (108-05-4)	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb.
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb.
SARA Section 313 - Emission Reporting	0.1 %

U.S. State Regulations

California Proposition 65

WARNING: This product can expose you to Acetaldehyde, 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
Acetaldehyde (75-07-0)	X			

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

Component	CAS No.	MA	MN	NJ	PA	RI
Ethanolamine	141-43-5	Yes		Yes	Yes	
Triethanolamine	102-71-6	Yes		Yes	Yes	
Acetaldehyde	75-07-0	Yes		Yes	Yes	
Vinyl Acetate	108-05-4	Yes		Yes	Yes	

Section 16 – Other Information

Date of Preparation or Latest Revision : March 31, 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 Regulations.