

DP 3030 White Water Based Vapor Retarder Mastic

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012.

Section 1 - Product and Company Identification

Product identifier

Product Name: Water Based Vapor Retarder Mastic

Product Code: DP 3030 White

Intended use of the product

Vapor Retarder Mastic

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

Aquatic Acute 3 H402 Aquatic Chronic 3 H412

Label Elements

GHS Labeling

Hazard Statements H402 - Harmful to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements P201 - Obtain special instructions before use.

P260 - Do not breathe vapors, mist, or spray.

P263 - Avoid contact during pregnancy/while nursing.

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.

P308+P313 - If exposed or concerned: 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)		% by Wt	Note
Calcium Carbonate	Limestone	1317-65-3	20 - 30	* (See below)
Talc (Mg3H2(SiO3)4)	Magnesium Silicate / Talc (containing no asbestos fibers	14807-96-6	1 - 5	* (See below)
2,2,4-Trimethyl-1,3- pentanediolmonoisobutyrate	2,2,4-Trimethyl-1,3-pentanediolmonoisobutyrate	25265-77-4	1 - 5	
Titanium Dioxide	C.I. 77891 / C.I. Pigment White 6	1343-67-7	1 - 5	* (See below)
Fuller's Earth	Hydrated Magnesium Aluminosilicate	8031-18-3	1-5	* (See below)
Quartz	Crystalline silica, quartz	14808-60-7	< 0.3	* (See below)
Aluminum oxide (Al2O3)	Aluminum oxide / Alumina	1344-28-1	≤ 0.07	* (See below)
Ethanolamine	Ethanol, 2-amino- / Monoethanolamine	141-43-5	≤ 0.05	
Triethanolamine	Ethanol, 2,2',2"-nitrilotri- / TEA	102-71-6	≤ 0.03	

^{*} 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 titanium dioxide and crystalline silica (quartz) which are hazardous when present as airborne dust. As provided, and during normal use of this product, these substances are encapsulated within the product. As such, they are 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. Drench affected area with water for at least 5 minutes. If exposed or concerned: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

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

Most Important Symptoms and Effects Both Acute and Delayed

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: Titanium dioxide is bound in the liquid matrix and is not able to become airborne. Thus, the hazards usually associated with titanium dioxide are not applicable to this product. 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,



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kidney effects, and immune system effects.

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.

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), Halogenated Compounds, Sulfur oxides, Nitrous fumes, Nitrogen oxides, Aldehydes, Ketones, Calcium oxides., 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: Do not breathe vapor, mist, or spray. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

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. Avoid release to the environment.

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.

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Section 7 - Handling and Storage

Precautions for Safe Handling

Do not allow product to dry out. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, 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. Store locked up/in a secure area.

Incompatible Materials: Acids. Oxidizers.

Specific End Use(s): Vapor Retarder

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:

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

ACGIH OEL TWA: 0.025 mg/m³ (respirable particulate matter)

ACGIH chemical category: A2 - Suspected Human Carcinogen
OSHA PEL (TWA) [1]: 50 µg/m³ (Respirable crystalline silica)

OSHA PEL (TWA) [2]: (250)/(%SiO₂+5) mppcf TWA (respirable fraction)

(10)/(%SiO₂+2) mg/m³ 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/m³ (respirable dust)

IDLH: 50 mg/m³ (respirable dust)

Ethanolamine (141-43-5)

ACGIH OEL TWA [ppm]: 3 ppm ACGIH OEL STEL [ppm]: 6 ppm OSHA PEL (TWA) [1]: 6 mg/m³ OSHA PEL (TWA) [2]: 3 ppm NIOSH REL (TWA): 8 ma/m³ NIOSH REL TWA [ppm]: 3 ppm NIOSH REL (STEL): 15 mg/m³ NIOSH REL STEL [ppm]: 6 ppm



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IDLH [ppm]: 30 ppm

Limestone (1317-65-3)

OSHA PEL (TWA) [1]: 15 mg/m³ (total dust)

5 mg/m³ (respirable fraction)

NIOSH REL (TWA): 10 mg/m³ (total dust)

5 mg/m³ (respirable dust)

Talc (Mg3H2(SiO3)4) (14807-96-6)

ACGIH OEL TWA: 2 mg/m³ (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

20 mppcf ((not containing asbestos) containing <1% quartz, if 1% quartz or more; OSHA PEL (TWA) [2]:

use quartz limit)

(See 29 CFR 1910.1000 TABLE Z-3)

NIOSH REL (TWA): 2 mg/m³ (containing no Asbestos and <1% Quartz-respirable dust)

IDLH: 1000 mg/m³ (containing no asbestos and <1% quartz)

Titanium dioxide (13463-67-7)

ACGIH OEL TWA: 10 mg/m³

ACGIH chemical category: Not Classifiable as a Human Carcinogen

OSHA PEL (TWA) [1]: 15 mg/m³ (total dust) NIOSH REL (TWA): 2.4 mg/m³ (CIB 63-fine)

0.3 mg/m³ (CIB 63-ultrafine, including engineered nanoscale)

IDLH: 5000 ma/m³

Triethanolamine (102-71-6)

ACGIH OEL TWA: 5 mg/m³

Aluminum oxide (Al2O3) (1344-28-1)

ACGIH OEL TWA: 10 ma/m³

OSHA PEL (TWA) [1]: 15 mg/m³ (total dust)

5 mg/m³ (respirable fraction)

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. Insufficient ventilation: wear respiratory protection.









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.

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Consumer Exposure Controls: Avoid contact during pregnancy/while nursing.

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: Thick PasteAppearance: WhiteOdor: Mild/Sweet

Odor Threshold : No data available

pH : 8.0 – 9.5

Evaporation Rate: Same as waterMelting Point: No data availableFreezing Point: 32 °F (0 °C)Boiling Point: 212 °F (100 °C)Flash Point: Not applicable

Auto-ignition Temperature: Not applicableDecomposition Temperature: No data availableFlammability (solid, gas): Not applicableLower Flammable Limit: Not applicableUpper Flammable Limit: Not applicableVapor Pressure: Same as waterRelative Vapor Density at 20°C: No data available

Relative Density : 11 - 11.5

Specific Gravity : No data available

Solubility in Water : Miscible

Partition Coefficient: N-Octanol/Water : No data available
Viscosity : Thixotropic (@ 77 °F)

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:

Acids. Oxidizers.



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Hazardous Decomposition Products:

Under fire conditions this material may produce hazardous carbon dioxide (CO2), carbon monoxide (CO), Halogenated Compounds, Sulfur oxides, Nitrous fumes, Nitrogen oxides, Aldehydes, Ketones, Calcium oxides., various low molecular weight hydrocarbons, and smoke.

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: Titanium dioxide is bound in the liquid matrix and is not able to become airborne. Thus, the hazards usually associated with titanium dioxide are not applicable to this product. 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



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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	
Aluminum oxide (Al2O3) (1344-28-1)		
LD50 Oral Rat	> 15900 mg/kg	
Titanium dioxide (13463-67-7)		
LD50 Oral Rat	> 10000 mg/kg	
LC50 Inhalation Rat	5.09 mg/l/4h	
IARC Group	2B	
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.	
Talc (Mg3H2(SiO3)4) (14807-96-6)		
IARC Group	3	
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.	
Fuller's Earth (8031-18-3)		
ATE US/CA (oral)	500.00 mg/kg body weight	
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)		
LD50 Oral Rat	6,500 mg/kg	
LC50 Rat	> 3.55 mg/l/6h	
LD50 Dermal Rabbit	> 15,200 mg/kg	

Section 12 – Ecological Information

Toxicity

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

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

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

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

Aluminum oxide (Al2O3) (1344-28-1	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l



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NOEC (Acute)	> 50 mg/l
2,2,4-trimethyl-1,3-pentanediol mo	
LC50 Fish 1	30 mg/L (Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	147.8 mg/L (Exposure time: 48 h Species: Daphnia magna)
ErC50 algae	15 mg/L (Exposure time: 72 Hr Pseudokirchneriella subcapitata)
Persistence and Degradability	
Persistence and Degradability	May cause long-term adverse effects in the environment.
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Bioaccumulative Potential	
Bioaccumulative Potential	Not established.
Ethanolamine (141-43-5)	
Partition coefficient n-	-1.91 (at 25 °C)
octanol/water (Log Pow)	
Triath and Lauring (400 74 0)	
Triethanolamine (102-71-6)	
BCF Fish 1	3.9
Partition coefficient n-	-2.53
octanol/water (Log Pow)	
T-1- (M-0110(0:00)4) (44007.00.0)	
Talc (Mg3H2(SiO3)4) (14807-96-6)	
BCF Fish 1	(no known bioaccumulation)
2,2,4-trimethyl-1,3-pentanediol mo	
Partition coefficient n-	3.2 (at 25 °C)
octanol/water (Log Pow)	

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. This material is hazardous to the aquatic 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 transportIMDG: Not regulated for transportATA: Not regulated for transportTDG: Not regulated for transport

Section 15 - Regulatory Information

US Federal Regulations



Health hazard - Carcinogenicity

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SARA Section 311/312 Hazard Classes

Inventory Status

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

Aluminum oxide (Al2O3) (1344-28-1)	
Subject to reporting requirements of United States SA	RA Section 313
SARA Section 313 - Emission Reporting	1 % (fibrous forms)

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
Quartz (14808-60-7)	X			
Titanium dioxide (13463-67-7)	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
Crystalline Silica (Quartz)	14808-60-7	Yes		Yes	Yes	Yes
Ethanolamine	141-43-5	Yes		Yes	Yes	
Triethanolamine	102-71-6	Yes		Yes	Yes	
Limestone	1317-65-3	Yes	Yes	Yes	Yes	Yes
Talc (Mg3H2(SiO3)4)	14807-96-6	Yes		Yes	Yes	
Aluminum Oxide	1344-28-1	Yes		Yes	Yes	
Titanium Dioxide	1343-67-7	Yes	Yes	Yes	Yes	Yes

Section 16 - Other Information

Date of Preparation or Latest

Revision

: December 1, 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:

H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

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.