

PRODUCT NAME: DIATHON HIGH TENSILE

PRODUCT CODE: DIHT

## ~~~~ SECTION 1 ~~~~ MANUFACTURER IDENTIFICATION ~~~~

Manufacturer's Name : UNITED COATINGS MANUFACTURING CO  
 Address : 19011 EAST CATALDO AVE.  
           : SPOKANE VALLEY, WASHINGTON 99016-9423  
           : INITIAL(FIRST CALL)CHEMTREC(800)424-9300  
 INFORMATION PHONE : (509)926-7143  
 TOLL FREE : BACKUP(800)541-4383  
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## ~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

Reportable Components	CAS Number	MM HG @ Temp	Weight %
Acrylic Polymer Mixture		17 68F/20C	49
Contains: Aqua Ammonia, CAS#1336-21-6, 0.1%Max,. OSHA PEL: 50ppm, ACGIH TWA 25 ppm STEL 35ppm			
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Aluminum trihydroxide	21645-51-2	N/A N/A	22
OSHA, PEL 15mg/m3 total dust, 5mg/m3 respirable dust. ACGIH, TLV 10mg/m3 total dust			
~			
Water	7732-18-5	UNK UNK	14
No OEL's Established			
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Calcium carbonate	1317-65-3	N/A N/A	6
Calcium Carbonate (CAS# 1317-65-3) OSHA PEL TWA: 15mg/m3 (total dust), 5mg/m3 (respirable dust) ACGIH TLV TWA: 10mg/m3 (total dust for <1% silica) Calcium Carbonate Contains <0.3% Silica, quartz Silica, quartz (CAS# 14808-60-7) OSHA PEL TWA: 30mg/m3 / % silica+2 (total dust), 10mg/m3 / % silica+2 (respirable dust). ACGIH TLV TWA: 0.05mg/m3 (respirable dust).			
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Titanium Dioxide	13463-67-7	N/A N/A	2
Contains: Titanium dioxide, CAS#13463-67-7, ACGIH TLV TWA: 10mg/m3, total dust, OSHA PEL TWA: 15mg/m3, total dust. Aluminum hydroxide, CAS#21645-51-2, no exposure limits established. Amorphous silica, CAS# 112926-00-8, ACGIH TLV TWA: 10mg/m3, OSHA PEL TWA: 20mppcf or 80mg/m3/(%SiO2) Note: Titanium Dioxide has been classified in accordance with hazard criteria of the Controlled Product Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS: D2A-Very toxic material causing other toxic effects.			
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Zinc Oxide	1314-13-2	N/A N/A	2
OSHA PEL: TWA 5mg/m3 (fume), 15 mg/m3 (total dust), 5 mg/m3 (resp) ACGIH TLV: As a powder: 10 mg/m3, As a fume: 05 mg/m3			
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No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present in the product base.			
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NOTE: If tinted may contain Carbon Black CAS#1333-86-4 AND/OR Crystalline Silica CAS#14808-60-7. If tinted DARK GRAY or BLACK consider these levels to be reportable			

This MSDS may be used for other colors and container sizes of this product

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~~~~ SECTION 3 ~~~~ HAZARDS IDENTIFICATION ~~~~

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Potential Health Effects

Eyes:

Contact with product or exposure to vapor may cause mild to moderate eye irritation.

Skin:

Contact with product may cause moderate irritation.

Ingestion:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation:

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits. Symptoms indicating over exposure include, but are not limited to, headache, nausea and irritation of the nose, throat and lungs.

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~~~~ SECTION 4 ~~~~ FIRST AID MEASURES ~~~~

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Eyes:

Immediately flush with copious amounts of water for at least 15 minutes. If redness, itching, or burning sensations persist consult a physician or ophthalmologist immediately.

Skin:

Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Ingestion:

If person is conscious give two glasses of water (16 oz) but do not induce vomiting. If vomiting occurs, give fluids again. Never give anything by mouth to an unconscious or convulsing person. Consult a physician immediately.

Inhalation:

Remove to fresh air. Get medical attention if ill effects persist.

Note to Physician:

Treat according to person's condition and specifics of exposure.

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~~~~ SECTION 5 ~~~~ FIRE FIGHTING MEASURES ~~~~

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Flammable Properties

Flash Point: 998F

Lower Flammable Limits: N/A

Upper Flammable Limit: N/A

Auto Ignition Temperature: Not applicable

Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures:

As in any fire, NIOSH approved (SCBA) self-contained breathing apparatus and protective clothing should be worn.

Respiratory and eye protection required for fire fighting personnel.

Full protective equipment should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, use of an SCBA may not be required.

Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

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~~~~ SECTION 6 ~~~~ ACCIDENTAL RELEASE MEASURES ~~~~

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Small Spill:

Dike and absorb with inert material such as sand and remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, saw dust or commercial absorbent, and scoop up and place in containers for proper disposal. Keep spills and cleaning runoff out of the municipal sewers and open bodies of water. Decontaminate all clothing and the spill area with a detergent and large amounts of water.

Large Spill:

Remove all liquid with the use of a vacuum system. If unable to remove as a liquid, then absorb with sand, saw dust or commercial absorbent, and scoop up and place in containers for proper disposal.

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~~~~ SECTION 7 ~~~~ HANDLING AND STORAGE ~~~~

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Handling & Storage:

Use with adequate ventilation. Provide ventilation during use to control exposure within Section 8 guidelines. If TLV's are exceeded, use appropriate respiratory protection. Avoid eye contact. Avoid skin contact. Do not breathe vapor. Keep container closed. Do not take internally.

Other Precautions:

Always obey hazard warnings and handle empty containers as if they contained material. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid prolonged or repeated breathing of vapor or spray mist. Use only in a well ventilated area. Avoid skin or eye contact. If spilled on clothing, launder before reuse. Do not take internally. Keep out of the reach of children. Wash thoroughly after handling.

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~~~~ SECTION 8 ~~~~ EXPOSURE CONTROLS/PERSONAL PROTECTION ~~~~

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Engineering Controls:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use

NIOSH/MSHA approved respirators.

In outside mixing and application operations, situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers. If there is a lack of air movement monitor for maximum exposure limits as indicated in section 2 and if exceeded, use appropriate Respiratory Equipment.

**Respiratory Protection:**

None required if area is adequately ventilated. Use NIOSH approved air-purifying respirator equipped with an ammonia/methylamine cartridge(s) if overspray is present, or concentration of product is not known or is above the exposure guidelines . Follow OSHA regulation 29 CFR 1910.134 for respirator use.

**Skin Protection:**

Use impermeable gloves, coverall, hat, boots, and rubber apron to avoid skin contact. Contaminated clothing and equipment should be cleaned or disposed of after each use.

**Eye Protection:**

Chemical goggles, unless a full-face piece respirator is used. Eye protection worn must be compatible with respiratory protection system employed.

~~~~ SECTION 9 ~~~~ PHYSICAL AND CHEMICAL PROPERTIES ~~~~

Boiling Range: 212F/100C

Melting Point:

Specific Gravity(H<sub>2</sub>O=1): 1.2931

Vapor Density(Air=1): Unknown

Vapor Pressure: Unknown

Evaporation Rate(N-Butyl Acetate=1) : Slower than ether.

Coating V.O.C.: 0.29 lb/gl                      Coating V.O.C.: 35 g/l

Material V.O.C.: 0.15 lb/gl                      Material V.O.C.: 18 g/l

Solubility in Water: Soluble.

Appearance: Highly thixotropic liquid. Various colors and textures

Odor: Ammonia

pH: 8.5 TO 9.2

~~~~ SECTION 10 ~~~~ STABILITY & REACTIVITY DATA ~~~~

**Stability:**

This material is considered stable. However, avoid temperatures above 177C/350F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

**Conditions To Avoid:**

Extremely hot or cold temperatures and mixing/applying in inadequately ventilated areas.

**Incompatible Materials:**

No materials are known to be incompatible with this product.

**Hazardous Decomposition Products**

Thermal decomposition may yield acrylic monomer, carbon monoxide and carbon dioxide. Unidentified organic compounds in fumes and smoke may be formed during combustion.

Hazardous Polymerization:  
Not expected to occur

~~~~ SECTION 11 ~~~~ TOXICOLOGICAL INFORMATION ~~~~

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\*Data is for individual components of preparation.  
Materials having a known chronic/acute effects on eyes:  
Eye irritation: slight to moderate irritation.  
Materials having a known dermal toxicity.  
Titanium Dioxide CAS#13463-67-7 Dermal LD50 (rabbit) >10 g/kg

Materials having a known oral toxicity.  
TITANIUM DIOXIDE CAS#13463-67-7 Oral LD50 (rat) >25 g/kg  
Materials having a known Inhalation hazard:  
TITANIUM DIOXIDE CAS#13463-67-7 LC50 (rat)>6.82 mg/l(4 hr)  
Identified Acute/ Short-term Effects:  
No animal data available.  
Identified Carcinogens/Longterm Effects:  
No animal data available.  
Identified Teratogens:  
No animal data available.  
Identified Reproductive toxins :  
No animal data available.  
Identified Mutagens:  
No animal data available.

~~~~ SECTION 12 ~~~~ ECOLOGICAL INFORMATION ~~~~

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Ecotoxicological effects on plants and animals:  
Titanium Dioxide CAS#13463-67-7 96 Hr LC50 (Fathead minnows)>1,000 mg/l

Chemical Fate :  
No Data Available.

~~~~ SECTION 13 ~~~~ DISPOSAL CONSIDERATIONS ~~~~

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Instructions:  
Whatever cannot be saved for reuse should be transferred to an appropriate and approved waste disposal facility. Consult appropriate national, state and local regulatory agencies to ascertain proper disposal procedures.

~~~~ SECTION 14 ~~~~ TRANSPORT INFORMATION ~~~~

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Shipping Information:  
DOT INFORMATION - 49 CFR 172.101  
DOT DESCRIPTION: NOT REGULATED

~~~~ SECTION 15 ~~~~ REGULATORY INFORMATION ~~~~

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(Not meant to be all inclusive-selected regulations represented)  
US Regulations:  
Status Of Substances Lists:  
The Concentrations Shown In Section II Are Maximum Ceiling Levels (Weight %) to be used for calculations for regulations.  
A reportable quantity is a quantity of a hazardous substance that triggers reporting requirements under the Comprehensive Environmental Response Compensation And Liability Act (CERCLA).  
If a spill of a substance exceeds it's reportable quantity (RQ) in

CFR 302.3, Table 40 302.4 Appendix A & 302.4 Appendix B, the release must be reported to The National Response Center At (800) 424-8802, The State Emergency Response Commission (SERC), And community emergency coordinators likely to be affected. Components present that could require reporting under the statute are: NONE KNOWN

Superfund Amendments And Reauthorization Act Of 1986 (SARA) Title III Requires emergency planning based on the Threshold Quantities (TPQ'S) and release reporting based on Reportable Quantities (RQ'S) In 40 CFR 355 Appendix A&B Extremely Hazardous Substances. The emergency planning and release requirements of 40 CFR 355 apply to any facility at which there is present any amount of any extremely hazardous substance (EHS) equal to or in excess of it's Threshold Planning Quantity (TPQ). Components present that could require reporting under the statute are: NONE KNOWN

EPCRA 40 CFR 372 (Section 313) Requires EPA and the States to annually collect data on releases of certain toxic materials from industrial facilities, and make the data available to the public in the Toxics Release Inventory (TRI). This information must be included in all MSDS'S that are copied and distributed or compiled for this material. Reporting Threshold: Standard: A facility must report if it manufactures (including imports) or processes 25,000 pounds or more or otherwise uses 10,000 pounds or more of a listed toxic chemical during the calendar year. Components present that could require reporting under the statute are: See Section II

The components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) chemical substance inventory. Mixtures shall be assumed to present the same health hazards as do the components which comprise one percent (by weight or volume) or greater of the mixture, except that the mixture shall be assumed to present a carcinogenic hazard if it has a component in concentrations of 0.1 percent or greater. The remaining percentage of unspecified ingredients, if any, are not contained in above DeMinimis concentrations and/or are believed to be non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200), and may consist of pigments, fillers, defoamers, wetting agents, resins, dryers, anti-bacterial agents, water and/or solvents in varying concentrations.

International Regulations:

Canadian WHMIS:

This Product Contains the following in recordable amounts:

Titanium Dioxide CAS#13463-67-7

WHMIS Classification: D2A

WHMIS Health Effects Criteria Met by this Chemical:

Very toxic material causing other toxic effects

Canadian Environmental Protection Act (CEPA):

All of the components of this product are exempt or listed on the DSL/NDSL. See Section II For Composition/Information on Ingredients.

EINECS:

All of the components of this product are listed in the EINECS inventory or are exempt from notification requirements.

## State Regulations:

## California:

California Proposition 65: The following Statement is made in order to comply with The California Safe Drinking Water and Toxic Enforcement Act of 1986

"WARNING: This product contains the chemical(s) appearing below known to the State of California to:

A: Cause Cancer

None known.

\*If tinted contains Carbon Black: CAS#1333-86-4 and may also contain trace amounts of Crystalline Silica: CAS#14808-60-7

B: Cause Birth Defects or other Reproductive Harm :

None known.

In addition to the above named chemical(s) (if any), this product may contain trace amounts of chemicals, known to the State of California, to cause Cancer or Birth Defects and other Reproductive Harm

## Delaware:

NONE KNOWN

## Florida:

ZINC OXIDE CAS#1314-13-2 LISTED AS TOXIC

## Idaho:

NONE KNOWN

## Massachusetts:

Titanium Dioxide CAS#13463-67-7 SUBSTANCE CODES: 4

ZINC OXIDE CAS#1314-13-2 SUBSTANCE CODES 2,4,F8,F9

## Michigan:

NONE KNOWN

## Minnesota:

Titanium Dioxide CAS#13463-67-7

Listed In The Minnesota Hazardous Substances List:

Codes: A

Hazards: --

Carcinogen? NO

ZINC OXIDE CAS#1314-13-2

LISTED IN THE MINNESOTA HAZARDOUS SUBSTANCES LIST:

CODES: ANO

HAZARDS: --

CARNINOGEN? NO

## New Jersey:

NONE KNOWN

## New York:

NONE KNOWN

## Pennsylvania:

Titanium Dioxide CAS#13463-67-7 CODE: --

ZINC OXIDE CAS#1314-13-2 CODE: E

Washington:

|                              |                |                |
|------------------------------|----------------|----------------|
| Titanium Dioxide(Total Dust) | CAS#13463-67-7 |                |
| Washington Air Contaminant:  | ppm            | mg/Cubic Meter |
| TWA                          | UNK            | 10             |
| STEL                         | UNK            | UNK            |
| CEILING                      | UNK            | UNK            |

SKIN:UNK

ZINC OXIDE CAS#1314-13-2

|                             |     |                |
|-----------------------------|-----|----------------|
| WASHINGTON AIR CONTAMINANT: | ppm | mg/Cubic Meter |
| TWA                         | UNK | 10             |
| STEL                        | UNK | UNK            |
| CEILING                     | UNK | UNK            |

SKIN:UNK

Wisconsin:

NONE KNOWN

West Virginia

The following is on the West Virginia Toxic Air Pollutant List:

Titanium Dioxide CAS#13463-67-7 (Pounds per Year):

~~~~ SECTION 16 ~~~~ OTHER INFORMATION ~~~~

HMIS® III

|                 |     |
|-----------------|-----|
| Health          | : 2 |
| Flammability    | : 0 |
| Physical Hazard | : 0 |

\*Following Health rating Indicates Chronic/Carcinogenic Effects

HMIS® III Personal Protection : G

This rating is for the product as it is packaged. This rating will need to be adjusted by the user based on conditions of use.

The information contained herein relates only to the specific material identified. United Coatings believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. To assure proper use & disposal of these materials & the safety & health of employees & customers, United Coatings urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.