

PRODUCT NAME: DIATHON DS

PRODUCT CODES: DI-DS-W, DI-DS-LT, DI-DS-SG, DI-DS-T

~~~~ 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  
 DATE PRINTED : 4/18/2008  
 DATE REVISED : April 2008

~~~~ SECTION 2 ~~~~ HAZARDOUS INGREDIENTS/SARA III INFORMATION ~~~~

| Reportable Components | CAS Number | MM HG @ Temp | Weight % |
|-----------------------|------------|--------------|----------|
| Calcium Carbonate     | 1317-65-3  | N/A N/A      | 35-39    |

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 &lt;1% silica)

Calcium Carbonate Contains &lt;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).

~

Acrylic Polymer Mixture 22.6 68F/20C 27-29

Contains: Aqua Ammonia, CAS#1336-21-6, 0.2%Max,.

OSHA PEL: 50ppm, ACGIH TWA 25 ppm STEL 35ppm

No other exposure limits have been established

~

Water 7732-18-5 UNK UNK 17

No OEL's Established

~

Titanium Dioxide 13463-67-7 N/A N/A 5

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.

~

Calcium carbonate 1317-65-3 N/A N/A 4

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 &lt;1% silica)

Calcium Carbonate Contains &lt;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).

~

Phthalate acid ester Mixture &lt;0.075 68F/20C 2-3

Contains:

1,2-Benzenedicarboxylic acid, diheptyl ester,  
 branched and linear CAS# 68515-44-6

1,2-Benzenedicarboxylic acid, dinonyl ester,  
branched and linear CAS# 68515-45-7  
Diundecyl phthalate, branched and linear CAS# 85507-79-5  
1,2-Benzenedicarboxylic acid, heptyl nonyl ester,  
branched and linear CAS# 111381-89-6  
1,2-Benzenedicarboxylic acid, heptyl undecyl ester,  
branched and linear CAS# 111381-90-9  
1,2-Benzenedicarboxylic acid, nonyl undecyl ester,  
branched and linear CAS# 111381-91-0  
No OEL's established for any of these chemicals.

~

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

# Indicates carcinogenic chemical.

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.

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

---

Potential Health Effects

Eyes:

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

Skin:

Contact causes moderate skin irritation. Causes drying of the skin.

Ingestion:

Ingestion could cause abdominal cramps, nausea and diarrhea.

Inhalation:

May cause irritation to respiratory tract.

Product contains ingredient that may cause chronic lung damage.

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

---

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:

Immediately wash skin with a generous amount of soap and water. Remove contaminated clothing and shoes and wash before reuse. If irritation persists consult a physician.

Ingestion:

Not considered a potential route of exposure. If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Inhalation:

Remove from source of exposure and into fresh air. If symptoms persist consult a physician immediately. If not breathing, give artificial respiration and call emergency medical services immediately.

Note to Physician:  
None for this material.

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

---

Flammable Properties

Flash Point: 440F/227C

Lower Flammable Limits: N/A

Upper Flammable Limit: N/A

Auto Ignition Temperature: Not available

Extinguishing Media:

Foam, CO2, dry chemical, water fog or spray, as appropriate for surrounding fire.

Special Fire Fighting Procedures:

Do not enter any enclosed or confined fire space without full protective equipment, including self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) to protect against the hazardous effects of combustion products and oxygen deficiency.

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

---

Small Spill:

Always wear appropriate Personal Protective Equipment as you would if you were using this product. 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:

Wear skin, eye & respiratory protection during clean-up. Evacuate area of all non-essential personnel. Ventilate spill area. Dike, and contain and/or absorb with inert material (sand, earth or other suitable material) to prevent entry into storm drains, sewers and other unauthorized treatment/drainage systems and natural waterways. Scoop up and place in approved containers for proper disposal. Cover with lid. If spill occurs near air inlets or inside, turn off heating or air-conditioning equipment to prevent contaminating building.

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

---

Handling & Storage:

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container tightly closed when not in use. Do not use pressure to empty container. Do not puncture, cut, grind, weld or drill on or near this container. Closed containers may explode if exposed to extreme heat. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

## Other Precautions:

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

*Engineering Controls:*

In outside spray, mixing and rolling applications situate workers upwind of operation & provide airflow in a downwind direction so as to carry fumes and residual spray away from workers. Local exhaust ventilation recommended if generating vapor, dust or mist. Turn off heating and/or air conditioning equipment to prevent contaminating building. If exhaust ventilation is not adequate, use MSHA or NIOSH approved respirator. Refer to OSHA standard 29 CFR 1910.94 for guidelines.

*Respiratory Protection:*

Wear a NIOSH approved respirator appropriate for the vapor or mist concentration at the point of use. Appropriate respirators may be a full-face piece or a half mask air-purifying cartridge respirator equipped for organic vapors/mists, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator. Refer to OSHA standard 29 CFR 1910.134 for additional information.

*Skin Protection:*

Chemical resistant gloves determined to be impervious under the conditions of use.

*Eye Protection:*

Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.

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

Boiling Range: 212F/100C - 235-278C

Melting Point: N/A

Specific Gravity(H2O=1): 1.4907

Vapor Density(Air=1): Not determined.

Vapor Pressure: Not determined.

Evaporation Rate(N-Butyl Acetate=1) : Similar to water.

Coating V.O.C.: 0.12 lb/gl                      Coating V.O.C.: 14 g/l

Material V.O.C.: 0.06 lb/gl                      Material V.O.C.: 7 g/l

Solubility in Water: Soluble

Appearance: Moderately viscous pigmented liquid, various colors.

Odor: Ester

pH: 8.0

## ~~~~ SECTION 10 ~~~~ STABILITY &amp; REACTIVITY DATA ~~~~~

*Stability:*

Stable

*Conditions To Avoid:*

Extremely hot or cold temperatures

Avoid heat and open flame. Keep air tight and free of moisture.

*Incompatible Materials:*

Strong oxidizing agents  
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 ~~~~

---

\*Data is for individual components of preparation.  
Materials having a known chronic/acute effects on eyes:  
NO DATA  
Materials having a known dermal toxicity.  
Titanium Dioxide CAS#13463-67-7 Dermal LD50 (rabbit) >10 g/kg

Phthalate acid ester  
LD50: (rabbit) >7.9g/kg  
practically non-toxic

Materials having a known oral toxicity.  
TITANIUM DIOXIDE CAS#13463-67-7 Oral LD50 (rat) >25 g/kg  
Phthalate acid ester  
Oral LD50: (rat) >6,200mg/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:  
Headache, nausea, abdominal pain and irritation of the nose, throat and lungs. Skin and eye irritation.

Identified Carcinogens/Longterm Effects:  
Magnesium aluminum silicate CAS# 12174-11-7 is believed to cause cancer by the state of California, however for particles < 5 micrometers the following ratings apply. NTP: None and IARC: 3, OSHA: No.

Identified Teratogens:  
Phthalate Acid ester:  
Components of this product lowered fetal body weight when given to rats at 5g/kg on day 6-19 of pregnancy. In a more recent screening study, the obvious signs of developmental toxicity noted at 1000mg/kg body weight appeared only when maternal toxicity was evident.

Identified Reproductive toxins :  
NO DATA.  
Identified Mutagens:  
NO DATA.

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

---

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

Chemical Fate :  
This product is not expected to be biodegradable. Avoid spillage into the environment.

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

## 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 ~~~~~

## Shipping Information:

DOT INFORMATION: 49 CFR 172.101

DOT DESCRIPTION: NON HAZARDOUS

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

(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 is not listed in any division, class, or subdivision.

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

Magnesium aluminum silicate CAS# 12174-11-7 Code: C

\*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:

NONE KNOWN

Idaho:

NONE KNOWN

Massachusetts:

CALCIUM CARBONATE, CAS#1317-65-3

SUBSTANCE CODES:4

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

Michigan:

NONE KNOWN

Minnesota:

THE FOLLOWING ARE LISTED IN THE MINNESOTA HAZARDOUS  
SUBSTANCES LIST

| CHEMICAL NAME     | CAS#      | CODES | HAZARDS | CARCINOGEN? |
|-------------------|-----------|-------|---------|-------------|
| CALCIUM CARBONATE | 1317-65-3 | A     | --      | NO          |

Titanium Dioxide CAS#13463-67-7

Listed In The Minnesota Hazardous Substances List:

Codes:           A  
Hazards:         --  
Carcinogen?     NO

New Jersey:

NONE KNOWN

New York:

NONE KNOWN

Pennsylvania:

CALCIUM CARBONATE                   CAS#1317-65-3       CODE:E

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

Washington:

WASHINGTON AIR CONTAMINANT:

| CALCIUM CARBONATE(RESPIRABLE) | CAS#1317-65-3 |                |  |
|-------------------------------|---------------|----------------|--|
| WA                            | ppm           | mg/Cubic Meter |  |
| TWA                           | UNK           | 5              |  |
| STEL                          | UNK           | UNK            |  |
| CEILING                       | UNK           | UNK            |  |
| SKIN:UNK                      |               |                |  |

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                    |     |                |

Wisconsin:

NONE KNOWN

West Virginia

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

Calcium carbonate   CAS#1317-65-3   (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 : I*

*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.*