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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:**

While this material has a low degree of toxicity, ingestion of large quantities may cause irritation of the digestive tract.

**Inhalation:**

May cause irritation of the respiratory tract. Coughing and chest pain may result as well as shortness of breath and reduced pulmonary function.

~~~~ 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.

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Note to Physician:

No specific antidote. Supportive care, treatment based on judgment of the physician in response to reactions of the patient.

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

**Flammable Properties**

**Flash Point:** N/A

**Lower Flammable Limits:** N/A

**Upper Flammable Limit:** N/A

**Auto Ignition Temperature:**N/A

**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:

Stop spill at source. Pick up with mop and shovel. Rinse well with 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:**

Keep from freezing. Keep container cool and dry. Use and store this product with adequate ventilation. Keep product containers tightly closed when not in use. Avoid subjecting this product to extreme temperature variations.

**Other Precautions:**

Avoid skin or eye contact. Avoid prolonged or repeated

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breathing of vapors and mists. If spilled on clothing, launder before reuse. Do not take internally. Use only in a well ventilated area. Keep out of the reach of children.

~~~~ 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. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

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:

The use of nitrile rubber gloves is advised to prevent skin contact and possible irritation.

Eye Protection:

Safety glasses with side shields

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

Boiling Range: 212F/100C

Melting Point: N/A

Specific Gravity(H<sub>2</sub>O=1): 1.9264

Vapor Density(Air=1): N/A

Vapor Pressure: 17mm Hg @ 20C/68F Water

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

Coating V.O.C.: 0.3 lb/gl                      Coating V.O.C.: 36 g/l

Material V.O.C.: 0.21 lb/gl                      Material V.O.C.: 26 g/l

Solubility in Water: Soluble

Appearance: PIGMENTED, VISCOUS.

Odor: FAINT AMMONIACAL ODOR.

pH: ~9

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

Stability:

Stable

Conditions To Avoid:

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Extremely hot or cold temperatures

Incompatible Materials:

Avoid contact with strong acids and strong oxidizing materials.

Hazardous Decomposition Products

Thermal decomposition may yield 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:**

Acrylic Polymer: Slight irritation (rabbit)

**Materials having a known dermal toxicity.**

Crystalline silica, CAS: 14808-60-7: skin irritation-due to the high tendency to absorb moisture (and oils), many individuals experience excessively dry, chapped skin with prolonged or repeated exposure.

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

Acrylic Polymer LD50 > 5,000mg/kg (rat)

**Materials having a known Inhalation hazard:**

Crystalline silica, CAS: 14808-60-7. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica inhaled from occupational sources is also classified as carcinogenic to humans. There is also evidence that exposure to respirable silicosis or the disease silicosis is associated with the increased incidence of leproderma, an autoimmune disorder manifested by a fibrosis of the skin and internal organs. Silicosis increases the risk of tuberculosis. There are several studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.

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/Long-term Effects:**

Contains crystalline silica CAS#14808-60-7. Overexposure to

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respirable crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. This dust can be formed when sanding or otherwise mechanically abrading the dried product surface. Follow all OSHA guidelines and precautions to avoid over exposure. The international agency for research on cancer (IARC) has evaluated in volume 68, monographs on the evaluation of the carcinogenicity risk of chemicals to humans, crystalline silica in the form of quartz and amorphous silica (1997), that there is "sufficient evidence for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational exposures has been classified as a group 1 carcinogen by the IARC.

**Identified Teratogens:**

NO DATA

**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:

NO DATA.

~~~~ 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: NOT REGULATED

~~~~ 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

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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 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:**

CLASS D - POISONOUS AND INFECTIOUS MATERIALS  
Division 2 - Materials Causing Other Toxic Effects  
Subdivision A - Very Toxic Materials



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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  
SILICA           CAS#14808-60-7                    CODE:--  
KAOLIN CLAY                   CAS#1332-58-7        CODE:--  
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

SILICA           CAS#14808-60-7  
WASHINGTON AIR CONTAMINANT:    ppm                   mg/Cubic Meter  
TWA                                  UNK                   0.1  
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

~~~~ 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

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