

E305-WH243 WHITE**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: E305-WH243 WHITE
PRODUCT USE: Industrial Powder Coating

MANUFACTURER

Cardinal Paint and Powder
1329 Potrero Ave
S. El Monte, CA, 91733
626 444-9274

24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC (US Transportation): (800)424-9300
CHEMTREC (International Transportation): (202)483-7616
WEB: WWW.CARDINALPAINT.COM

2. HAZARDS IDENTIFICATION**PICTOGRAMS :**

SIGNAL WORD : WARNING

HAZARD STATEMENTS :

H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS :

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Weight % | CAS Number |
|------------------|-----------|------------|
| Titanium Dioxide | 30% - 35% | 13463-67-7 |
| Bisphenol A | 1% - 5% | 80-05-7 |

4. FIRST AID MEASURES**Description of first aid measures.**

EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

SKIN CONTACT : Remove affected clothing and wash all exposed area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

INGESTION : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a Poison Center or doctor/physician if you feel unwell.

INHALATION : Allow victim to breathe fresh air. Allow victim to rest. Remove to fresh air and keep at rest in a position comfortable to breath. Call a Poison Center or doctor/physician if you feel unwell.

Most important symptoms and effect, both acute and delayed : Symptoms/Injuries: May cause genetic defects. Causes damage to organs. - After Inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause an allergic skin reaction. May cause cancer by inhalation. - After Eye Contact: Causes serious eye damage. - After Ingestion: Swallowing a small quantity of this material may result in serious health hazard. Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, alcohol foam, dry chemical, carbon dioxide, water fog or sand.

UNSUITABLE EXTINGUISHING MEDIA: Do not use heavy water stream.

FIRE FIGHTING PROCEDURE: Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure modes.

UNUSUAL FIRE AND EXPLOSION HAZARD: This product is stable at normal handling and storage conditions.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

FOR NON-EMERGENCY PERSONNEL : For non-Emergency procedures: Evacuate unnecessary personnel.

FOR EMERGENCY RESPONDERS : Protective equipment : Equip cleanup crew with proper protection. - Emergency procedures : Ventilate area.

ENVIRONMENTAL PRECAUTIONS : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public water. Avoid release to the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP : On land, sweep or shovel into suitable containers,. Minimize generation of dust.

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 you are leaving work. Provide good ventilation in process area. Use only in well ventilated areas. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust, fumes and/or vapors.

Hygiene measures: Wash Skin thoroughly after handling.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES : Avoid heat sources and direct sunlight. Store in a dry place. Protect from moisture. Keep container closed when not in use. Keep only in the original container in a cool well ventilated place away from heat, ignition sources and direct sunlight.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.

**8. EXPOSURE CONTROLS\PERSONAL PROTECTION**

| | | |
|---------------------------------------|------------------------------|--------------------------------------|
| Amorphous Silica(112926-00-8) | | |
| USA OSHA | USA OSHA TWA (Table Z-1) | 6 mg/m3 |
| USA OSHA | USA OSHA TWA (Tabla Z-3) | 20 Million particals per cubic foot. |
| USA NIOSH | USA NIOSH TWA (REL) | 6 mg/m3 |
| Glycerol(56-81-5) | | |
| USA ACGIH | USA ACGIH TWA (TLV) | 10 mg/m3 |
| USA OSHA | USA OSHA TWA (OEL) Table Z-1 | 15 mg/m3 |
| Titanium Dioxide(13463-67-7) | | |
| ACGIH TLV (Threshold Limit Value) | TWA (Time Weighted Average) | 10 mg/m3 8 hours |
| OSHA PEL (Permissible Exposure Limit) | TWA (Time Weighted Average) | 15 mg/m3 8 hours |

PERSONAL PROTECTIVE EQUIPMENT**RESPIRATORY PROTECTION :** Wear approved dust mask.**HAND PROTECTION :** Wear protective gloves.**EYE PROTECTION :** Chemical goggles or safety glasses.**SKIN AND BODY PROTECTION :** Wear suitable protective clothing.**WORK HYGIENIC PRACTICES:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.**9. PHYSICAL AND CHEMICAL PROPERTIES**

| | | |
|----------------------------------|---|---------------------|
| Physical state | : | Solid |
| Melting point | : | 55 - 90 deg C |
| Flash point | : | No data available. |
| Lower explosion limit | : | 10 g/m ³ |
| Upper explosion limit | : | 70 g/m ³ |
| Density | : | 1.5780 |
| Solubility | : | No data available. |
| Autoignition temperature | : | No data available. |
| Decomposition temperature | : | No data available. |

10. STABILITY AND REACTIVITY**REACTIVITY :** This product is stable at normal handling and storage conditions.**CHEMICAL STABILITY :** Stable under normal conditions.**CONDITIONS TO AVOID :** Direct sunlight. Extremely high or low temperatures.**INCOMPATIBLE MATERIALS :** Strong acids. Strong bases.**HAZARDOUS DECOMPOSITION PRODUCTS:** Fume. Carbon monoxide. Carbon dioxide.**11. TOXICOLOGICAL INFORMATION**

| | |
|---------------------------------|---|
| Amorphous Silica(112926-00-8) | |
| Acute toxicity | no data available |
| Acute toxicity: Inhalation | no data available |
| Acute toxicity: Dermal | no data available |
| Skin irritation | no data available |
| Eye irritation | no data available |
| Respiratory or skin sensation | no data available |
| Germ cell mutagenicity | no data available |
| Carcinogenicity: IARC: Group 3: | not classifiable as to its carcinogenicity to humans |
| ACGIH | no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH |

| | |
|--|---|
| NTP | no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP |
| OSHA | no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA |
| Reproductive toxicity | no data available |
| Specific target organ toxicity - single exposure | no data available |
| Specific target organ toxicity - repeated exposure | no data available |
| Aspiration hazard | no data available |
| Additional information | Amorphous silica is not classified as to its carcinogenicity to humans, however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1, IARC). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Additional information | Stomach - irregularities - based on human evidence |
| Bisphenol A(80-05-7) | |
| Acute toxicity - oral - LD50 - male and female rat | > 2000 - 5000 mg/kg |
| Acute toxicity - inhalation - LC50 - male and female rat | 170 mg/m ³ / 6 h |
| Acute toxicity - dermal - LD50 - rabbit | 6400 mg/kg |
| Skin irritation - rabbit | No skin irritation / 4 h |
| Eye irritation - rabbit | Severe eye irritation / 24 h |
| Respiratory or skin sensitisation | No data available |
| Germ cell mutagenicity - Ames test - S. typhimurium | Negative |
| Germ cell mutagenicity - male and female mouse | Negative |
| IARC | No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC |
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH |
| NTP | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | Inhalation - may cause respiratory irritation |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional information - repeated dose toxicity - male and female rat - oral | Lowest observed adverse effect level - 600 mg/kg |
| Additional information | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Additional information | Stomach irregularities based on human evidence |
| Glycerol(56-81-5) | |
| Acute toxicity - LD50 - oral - rat | 12,600 mg/kg |
| Acute toxicity - inhalation | No data available |
| Acute toxicity - LD50 - dermal - rabbit | > 10,000 mg/kg |
| Skin irritation - rabbit | Mild skin irritation / 24 h |
| Eye irritation - rabbit | Mild eye irritation / 24 h |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| IARC | No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC |
| ACGIH | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH |
| NTP | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen |

| | |
|--|--|
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional information | Prolonged or repeated exposure may cause: nausea headache, vomiting |
| Additional information | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Additional information | Kidney irregularities based on human evidence |
| Titanium Dioxide(13463-67-7) | |
| Acute toxicity - LD50 - oral - rat | > 10000 mg/kg |
| Acute toxicity - inhalation | No data available |
| Acute toxicity - LD50 - dermal - rabbit | > 10000 mg/kg |
| Skin irritation - human | Mild skin irritation - 3 h |
| Eye irritation - rabbit | No eye irritation |
| Respiration or skin sensitisation | Will not occur |
| Germ cell mutagenicity - hamster - ovary - micronucleus test | No results available |
| Germ cell mutagenicity - hamster - lungs | DNA inhibition |
| Germ cell mutagenicity - hamster - ovary - sister chromatid exchange | No results available |
| Germ cell mutagenicity - mouse - micronucleus test | No results available |
| IARC | No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC |
| NTP | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional information | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated |

12. ECOLOGICAL INFORMATION

| | |
|---|--|
| Amorphous Silica(112926-00-8) | |
| Toxicity | no data available |
| Persistence and degradability | no data available |
| Bioaccumulative potential | no data available |
| Mobility in soil | no data available |
| PBT and vPvB | not available/not required |
| Bisphenol A(80-05-7) | |
| Toxicity to fish -flow-through test - LC50 - fathead minnow | 4.6 mg/L / 96 h |
| Toxicity to daphnia and other aquatic invertebrates - static test EC50 - water flea | 10.2 mg/L / 48 h |
| Toxicity to algae - static test EC50 - green algae | 2.73 - 3.1 mg/L / 96 h |
| Persistence and degradability - biodegradability - aerobic | 89% readily biodegradable - 28 d |
| Bioaccumulative potential - bioaccumulation - carp | 0.015 mg/L / 42 d |
| Mobility in soil | No data available |
| PBT and vPvB | Not available/not required |
| Other adverse effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects. |



| | |
|---|----------------------------|
| Glycerol(56-81-5) | |
| Toxicity | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB | Not available/not required |
| Other adverse effects | No data available |
| Titanium Dioxide(13463-67-7) | |
| Toxicity to fish - LC50 - other fish | > 1000 mg/L / 96 h |
| Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (water flea) | > 1000 mg/L / 48 h |
| Toxicity to daphnia and other aquatic invertebrates - EC0 - Daphnia magna (water flea) | 1000 mg/L / 48 h |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPbV | Not available/not required |
| Other adverse effects | No data available |

13. DISPOSAL CONSIDERATIONS**WASTE TREATMENT METHODS****GENERAL INFORMATION :** No data available.**DISPOSAL METHOD:** Dispose of in accordance with Local, State, Regional, National and International Regulations.

Ecology - waste materials: Avoid release to the environment.

14. TRANSPORT INFORMATION***CHECK WITH YOUR CARRIER FOR ADDITIONAL RESTRICTIONS THAT MAY APPLY.****USDOT GROUND****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME (DOT) :** Not Regulated/Not Applicable**HAZARDS CLASS :** None**UN/NA NUMBER :** Not Applicable**PACKING GROUP :** None**EMERGENCY RESPONSE GUIDE (ERG) :** Not Applicable**IATA (AIR)****DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)****PROPER SHIPPING NAME :** Not Regulated/Not Applicable**HAZARDS CLASS :** Not Applicable**UN/NA NUMBER :** Not Applicable**PACKING GROUP :** Not Applicable**EMERGENCY RESPONSE GUIDE (ERG) :** Not Applicable**IMDG (OCEAN)****PROPER SHIPPING NAME :** Not Regulated , Not Applicable**HAZARDS CLASS :** Not Applicable**UN/NA NUMBER :** Not Applicable**PACKING GROUP :** Not Applicable**EMERGENCY RESPONSE GUIDE (ERG) :** Not Applicable**MARINE POLLUTANT :** No**SPECIAL PRECAUTIONS :** P235 Keep cool.

**15. REGULATORY INFORMATION****US FEDERAL REGULATIONS**

All ingredients are TSCA (Toxic Substance Control Act) listed.

OSHA HAZARDS : Moderate skin irritant, Moderate eye irritant.

EPCRA - Emergency

CERCLA REPORTABLE QUANTITY

SARA 304 Extremely Hazardous Substances Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA 311/312 Hazards : Acute Health Hazard, Chronic Health Hazard

| This product contains: | Chemical CAS# |
|-------------------------------|----------------------|
| Titanium Dioxide | 13463-67-7 |
| Bisphenol A | 80-05-7 |

SARA 313 : No SARA 313 chemicals are present

CLEAN AIR ACT :**INTERNATIONAL REGULATIONS****CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP) :**

Carc. 2 H351 Suspected of causing cancer
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure

NATIONAL REGULATIONS

| This product contains: | Chemical CAS# |
|-------------------------------|----------------------|
| ~Titanium Dioxide | 13463-67-7 |




National Regulations Key

~ Indicates a chemical listed by IARC as a possible carcinogen.
^ Indicates a chemical listed by IARC as carcinogenic to humans.

**STATE REGULATIONS
CALIFORNIA PROPOSITION 65**

| This product contains: | Chemical CAS# |
|-------------------------------|----------------------|
| *Titanium Dioxide | 13463-67-7 |
| #Bisphenol A | 80-05-7 |
| *2-Methylimidazole | 693-98-1 |

Proposition 65 Key

- *  **WARNING:** This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer.
For more information visit WWWPROP65.CA.GOV.
- #  **WARNING:** This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause birth defects or other reproductive harm.
For more information visit WWWPROP65.CA.GOV.
- +  **WARNING:** This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information visit WWWPROP65.CA.GOV.

Massachusetts Right to Know

| This product contains | Chemical CAS# |
|------------------------------|----------------------|
| Titanium Dioxide | 13463-67-7 |
| Bisphenol A | 80-05-7 |
| Amorphous Silica | 112926-00-8 |
| Glycerol | 56-81-5 |

Pennsylvania Right to Know

| This product contains | Chemical CAS# |
|------------------------------|----------------------|
| Titanium Dioxide | 13463-67-7 |
| Bisphenol A | 80-05-7 |
| Amorphous Silica | 112926-00-8 |
| 2-Methylimidazole | 693-98-1 |
| Glycerol | 56-81-5 |

New Jersey Right to Know

| This product contains | Chemical CAS# |
|------------------------------|----------------------|
| Titanium Dioxide | 13463-67-7 |
| Bisphenol A | 80-05-7 |
| Amorphous Silica | 112926-00-8 |
| 2-Methylimidazole | 693-98-1 |
| Glycerol | 56-81-5 |

16. OTHER INFORMATION**Other Product Information:**

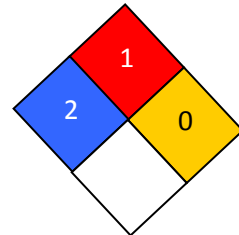
% Volatile by Volume : 0.00 % Volatile by Weight : 0.00
% Solids by volume : 100.00 % Solids by Weight : 100.00

VOC CONTENT:

Content tested per EPA METHOD 24, ASTM D2369 is less than 1% Wt/Wt.

HMIS RATING

| | |
|-----------------------|---|
| Health : | 2 |
| Flammability : | 1 |
| Reactivity : | 0 |
| Personal Protection : | E |

NFPA CODES

MANUFACTURER DISCLAIMER : The information contained in this Safety Data Sheet is considered to be true and accurate. Cardinal Paint and Powder makes no warranties, expressed or implied, as to the accuracy and adequacy of this information. This data is offered solely for the user's consideration, investigation and verification.