

**T243-GR522 FLINT GRAY****1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** T243-GR522 FLINT GRAY**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 :** DANGER**HAZARD STATEMENTS :**

- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.
- H351 Suspected of causing cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H318 Causes serious eye damage.
- H340 May cause genetic defects.

**PRECAUTIONARY STATEMENTS :**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                  | Weight %      | CAS Number |
|--------------------------------|---------------|------------|
| Titanium Dioxide               | 20% - 25%     | 13463-67-7 |
| 1,3,5-Triglycidyl Isocyanurate | 1% - 5%       | 2451-62-9  |
| Silicon Dioxide                | 1% - 5%       | 7631-86-9  |
| Carbon Black                   | 0.10% - 0.50% | 1333-86-4  |

**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 victim to fresh air and keep at rest in a position comfortable for breathing. 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.

**ENVIROMENTAL 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

|   |                             |  |
|---|-----------------------------|--|
| 1,3,5-Triglycidyl Isocyanurate(2451-62-9) |                             |  |
| ACGIH TLV (Threshold Limit Value)         | TWA (Time Weighted Average) | 0.05 mg/m <sup>3</sup> 8 hours         |
| Carbon Black(1333-86-4)                   |                             |  |
| ACGIH TLV (Threshold Limit Value)         | TWA (Time Weighted Average) | 3 mg/m <sup>3</sup> 8 hours            |
| NIOSH REL (Recommended Exposure Limit)    | TWA (Time Weighted Average) | 0.1mg of PAHs/cm <sup>3</sup> 10 hours |
| NIOSH REL (Recommended Exposure Limit)    | TWA (Time Weighted Average) | 3.5 mg/m <sup>3</sup> 8 hours          |
| OSHA PEL (Permissible Exposure Limit)     | TWA (Time Weighted Average) | 3.5 mg/m <sup>3</sup> 8 hours          |
| Crystalline Silica(14808-60-7)            |                             |  |
| ACGIH TLV (Threshold Limit Value)         | TWA (Time Weighted Average) | 0.025 mg/m <sup>3</sup> 8 hours        |
| Limestone(1317-65-3)                      |                             |  |
| ACGIH                                     | Not Applicable              | Not Applicable                         |
| Silicon Dioxide(7631-86-9)                |                             |  |
| ACGIH                                     | Not Applicable              | Not Applicable                         |
| OSHA                                      | Not Applicable              | Not Applicable                         |
| Titanium Dioxide(13463-67-7)              |                             |  |
| ACGIH TLV (Threshold Limit Value)         | TWA (Time Weighted Average) | 10 mg/m <sup>3</sup> 8 hours           |
| OSHA PEL (Permissible Exposure Limit)     | TWA (Time Weighted Average) | 15 mg/m <sup>3</sup> 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

|                                  |   |                     |
|----------------------------------|---|---------------------|
| <b>Physical state</b>            | : | Solid               |
| <b>Melting point</b>             | : | 55 - 90 deg C       |
| <b>Flash point</b>               | : | No data available.  |
| <b>Lower explosion limit</b>     | : | 10 g/m <sup>3</sup> |
| <b>Upper explosion limit</b>     | : | 70 g/m <sup>3</sup> |
| <b>Density</b>                   | : | 1.6549              |
| <b>Solubility</b>                | : | No data available.  |
| <b>Autoignition temperature</b>  | : | No data available.  |
| <b>Decomposition temperature</b> | : | 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 :** Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Fume. Carbon monoxide. Carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION



| 1,3,5-Triglycidyl Isocyanurate(2451-62-9)                          |  |
|--|--|
| 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              |
| Acute toxicity - LC50 - inhalation - rat - male - 4 h              | > 650 mg/m <sup>3</sup>  |
| Acute toxicity - LD50 - Dermal - rat- male & female                | > 2000 mg/kg   |
| Acute toxicity - LD50 - oral - rat                                 | 100 - 200 mg/kg  |
| Additional information   | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated                                 |
| Aspiration hazard  | No data available  |
| Eye irritation - rabbit  | Severe eye irritation  |
| Germ cell mutagenicity   | In vivo tests showed mutagenic effects   |
| Germ cell mutagenicity - AMES test - mouse - male                  | Positive   |
| Germ cell mutagenicity - AMES test - S. typhimurium                | Positive   |
| 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 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  |
| Respiratory or skin sensation - Maximization test - guinea pig     | May cause sensitization by skin contact  |
| Skin irritation - rabbit   | Mild skin irritation - 24 hours  |
| Specific target organ toxicity - repeated exposure                 | No data available  |
| Specific target organ toxicity - single exposure                   | No data available  |
| 2-Mercaptobenzothiazole(149-30-4)                                  |  |
| 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              |
| Acute toxicity - LC50 - inhalation - rat                           | > 1270 mg/m <sup>3</sup>   |
| Acute toxicity - LD50 - dermal - male and female rabbit            | > 7940 mg/kg   |
| Acute toxicity - LD50 - oral - male and female rat                 | 3800 mg/kg   |
| Additional information   | Repeated dose toxicity - male and female rat - lowest observed adverse effect level - 2500 mg/kg   |
| Additional information   | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated                                 |
| Aspiration hazard  | No data available  |
| Eye irritation - rabbit  | No eye irritation / 24 h   |
| 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 |
| 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  |
| Respiratory or skin sensitisation - Buehler test - guinea pig      | May cause allergic skin reaction   |
| Respiratory or skin sensitisation - Maximisation test - guinea pig | May cause allergic skin reaction   |
| Skin irritation - rabbit   | No skin irritation / 24 h  |
| Specific target organ toxicity - repeated exposure                 | No data available  |



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| Specific target organ toxicity - single exposure   | No data available   |
| <b>Amorphous Silica(112926-00-8)</b>               |   |
| 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   |
| Acute toxicity                                     | no data available   |
| Acute toxicity: Dermal                             | no data available   |
| Acute toxicity: Inhalation                         | 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  |
| Aspiration hazard                                  | no data available   |
| Carcinogenicity: IARC: Group 3:                    | not classifiable as to its carcinogenicity to humans  |
| Eye irritation                                     | no data available   |
| Germ cell mutagenicity                             | no data available   |
| 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   |
| Respiratory or skin sensation                      | no data available   |
| Skin irritation                                    | no data available   |
| Specific target organ toxicity - repeated exposure | no data available   |
| Specific target organ toxicity - single exposure   | no data available   |
| <b>Barium Sulfate(7727-43-7)</b>                   |   |
| 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   |
| Acute toxicity - Dermal                            | No data available   |
| Acute toxicity - inhalation                        | No data available   |
| Additional information                             | Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation., Damage to the lungs., 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  |
| Aspiration hazard                                  | No data available   |
| Carcinogenicity - rat - intrapleural - tumorigenic | Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors  |
| Eye irritation                                     | No data available   |
| Germ cell mutagenicity - mouse - micronucleus test | No reported data  |
| 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 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   |
| Respiratory or skin sensation                      | No data available   |
| Skin irritation                                    | No data available   |
| Specific target organ toxicity - repeated exposure | No data available   |
| Specific target organ toxicity - single exposure   | No data available   |
| <b>Carbon Black(1333-86-4)</b>                     |   |
| Aspiration hazard                                  | No data available   |



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|---|---|
| Carcinogenicity - Rat - Inhalation                              | Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies.   |
| DNA repair - Rat - Female                                       | Negative  |
| Eye damage/irritation - Rabbit                                  | No eye irritation, (OECD Test Guideline 405)  |
| Germ cell mutagenicity  | Ames test, S. typhimurium, negative   |
| Hamster - Ovary   | Negative  |
| IARC  | 2B - Group 2B: Possibly carcinogenic to humans (carbon black)   |
| LD50 Dermal - Rabbit  | > 3,000 mg/kg   |
| LD50 Inhalation - Rat   | No data available   |
| LD50 Oral - Rat   | > 8,000 mg/kg, male and female, (OECD Test Guideline 401)   |
| 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  |
| Organ toxicity  | Specific target organ toxicity - repeated exposure: No data available   |
| Organ toxicity  | Specific target organ toxicity - single exposure: No data available   |
| OSHA  | No component of this product present at levels greater than 0.1% is identified as a carcinogen or potential carcinogen by OSHA  |
| Reproductive toxicity   | No data available   |
| Respiratory/skin sensitization - Guinea pig                     | Did not cause sensitization on laboratory animals, (OECD Test Guideline 406)  |
| Skin corrosion/irritation                                       | No skin irritation - 24 h, (OECD Test Guideline 404)  |
| <b>Crystalline Silica(14808-60-7)</b>                           |   |
| 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   |
| Acute Dermal toxicity   | no data available   |
| Acute Inhalation toxicity                                       | no data available   |
| Additional information  | Liver - Irregularities - based on human evidence  |
| Additional information  | Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stage, loss of appetite, pleuric pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP., The chronic health risks are associated with respirable particles of 3-4 um over protracted periods of time. Currently, there is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity. Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential. |
| Aspiration hazard   | no data available   |
| Carcinogenicity   | Limited evidence of carcinogenicity in human studies  |
| eye irritation  | no data available   |
| Germ cell mutagenicity  | no data available   |
| IARC  | Group 1: Carcinogenic to humans (Quartz)  |
| NTP   | Known to be human carcinogen (Quartz)   |
| 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   |
| Respiratory or skin sensation                                   | no data available   |
| Skin irritation   | no data available   |
| Specific target organ toxicity - repeated exposure - inhalation | may cause damage to organs through prolonged or repeated exposure   |
| Specific target organ toxicity - single exposure                | no data available   |
| <b>Iron Oxide(1309-37-1)</b>                                    |   |
| Acute toxicity  | No data available   |
| Acute toxicity - dermal   | No data available   |
| Additional information  | Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  |
| Aspiration hazard   | No data available   |



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| Carcinogenicity  | This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification. |
| Carcinogenicity - rat - subcutaneous                                 | Equivocal tumorigenic agent by RTECS criteria. Tumors at site of application.   |
| Eye irritation - human   | Moderate eye irritation   |
| Germ cell mutagenicity   | No data available   |
| IARC   | Group 3: not classifiable as to its carcinogenicity to humans (diiron trioxide).  |
| 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   |
| Respiratory or skin sensitization                                    | No data available   |
| Skin irritation - human  | Skin irritation   |
| Specific target organ toxicity - repeated exposure                   | No data available   |
| Specific target organ toxicity - single exposure                     | inhalation - may cause respiratory irritation.  |
| <b>Limestone(1317-65-3)</b>  |   |
| ACGIH, IARC, NTP, CA Prop 65   | Not listed  |
| Draize test, rabbit, eye   | 750 ug/24H severe   |
| Draize test, rabbit, skin  | 500 mg/24H moderate   |
| Epidemiology   | No information available  |
| Mutagenicity   | No information available  |
| Neurotoxicity  | No information available  |
| Oral, rat: LD50  | 6450 mg/kg  |
| Reproductive effects   | No information available  |
| Teratogenicity   | No information available  |
| <b>Silicon Dioxide(7631-86-9)</b>                                    |   |
| 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     |
| Acute toxicity - dermal  | No data available   |
| Acute toxicity - inhalation  | No data available   |
| Additional information   | Stomach irregularities based on human evidence (silicon dioxide)  |
| Additional information   | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated                        |
| Aspiration hazard  | No data available   |
| Eye irritation   | No data available   |
| Germ cell mutagenicity   | No data available   |
| IARC   | Group 3: Not classifiable as to its carcinogenicity to humans (Silicon dioxide)   |
| 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   |
| Respiratory or skin sensitisation                                    | No data available   |
| Skin irritation  | No data available   |
| Specific target organ toxicity - repeated exposure                   | No data available   |
| Specific target organ toxicity - single exposure                     | No data available   |
| <b>Titanium Dioxide(13463-67-7)</b>                                  |   |
| Acute toxicity - inhalation  | No data available   |
| Acute toxicity - LD50 - dermal - rabbit                              | > 10000 mg/kg   |
| Acute toxicity - LD50 - oral - rat                                   | > 10000 mg/kg   |
| Additional information   | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated                        |
| Aspiration hazard  | No data available   |
| Eye irritation - rabbit  | No eye irritation   |
| Germ cell mutagenicity - hamster - lungs                             | DNA inhibition  |
| Germ cell mutagenicity - hamster - ovary - micronucleus test         | No results available  |
| Germ cell mutagenicity - hamster - ovary - sister chromatid exchange | No results available  |





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| 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   |
| Respiration or skin sensitisation                  | Will not occur  |
| Skin irritation - human                            | Mild skin irritation - 3 h  |
| Specific target organ toxicity - repeated exposure | No data available   |
| Specific target organ toxicity - single exposure   | No data available   |
| <b>Zinc Stearate(557-05-1)</b>                     |   |
| Acute toxicity - dermal                            | No data available   |
| Acute toxicity - LD50 - oral - rat                 | > 10000 mg/kg   |
| Additional information                             | Aspiration or inhalation may cause chemical pneumonitis., Lung irritation, chest pain, pulmonary edema  |
| Additional information                             | Stomach irregularities based on human evidence  |
| Aspiration hazard                                  | No data available   |
| Eye irritation                                     | 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 |
| 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   |
| Respiratory or skin sensitization                  | No data available   |
| Skin irritation                                    | No data available   |
| Specific target organ toxicity - repeated exposure | No data available   |
| Specific target organ toxicity - single exposure   | No data available   |

**12. ECOLOGICAL INFORMATION**

|   |   |
|---|---|
| <b>1,3,5-Triglycidyl Isocyanurate(2451-62-9)</b>  |   |
| Bioaccumulative potential   | No data available   |
| Mobility in soil  | No data available   |
| Other adverse effects   | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects |
| PBT & vPvB  | not available/not required  |
| Persistence and degradability - biodegradability - aerobic - exposure time: 44 d                                | 0.5 - 1% - not biodegradable  |
| Toxicity to algae - growth inhibition - EC50 - <i>Desmodesmus subspicatus</i>                                   | 29 - 30 mg/l - 72 h   |
| Toxicity to bacteria - Respiration inhibition - IC50 - Sludge Treatment   | > 100 mg/l 3 h  |
| Toxicity to daphnia and other aquatic invertebrates - Immobilization - EC50 - <i>daphnia magna</i> (water flea) | > 100 mg/l - 24 h   |
| Toxicity to fish - static test LC50 - <i>danio rerio</i> (zebra fish)   | > 77 mg/l - 96 h  |
| <b>2-Mercaptobenzothiazole(149-30-4)</b>  |   |
| Bioaccumulative potential - bioaccumulation - carp  | 0.1 mg/L / 42 d   |
| Bioaccumulative potential - Bioconcentration factor   | < 0.8   |





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| Mobility in soil   | No data available   |
| Other adverse effects  | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. |
| PBT and vPvB   | Not available/not required  |
| Persistence and degradability - biodegradability - biotic/aerobic                                      | 1% - not readily biodegradable - exposure time: 28 d  |
| Toxicity to algae - growth inhibition - EC50 - green algae   | 0.5 mg/L - 72 h   |
| Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) | 0.71 mg/L / 48 h  |
| Toxicity to fish - flow-through test - LC50 - rainbow trout  | 0.73 mg/L / 96 h  |
| <b>Amorphous Silica(112926-00-8)</b>   |   |
| Bioaccumulative potential  | no data available   |
| Mobility in soil   | no data available   |
| PBT and vPvB   | not available/not required  |
| Persistence and degradability  | no data available   |
| Toxicity   | no data available   |
| <b>Barium Sulfate(7727-43-7)</b>   |   |
| Bioaccumulative potential  | No data available   |
| Mobility in soil   | No data available   |
| PBT and vPvB   | not available/not required  |
| Persistence and degradability  | The methods for determining biodegradability are not applicable in inorganic substances   |
| Toxicity   | No data available   |
| <b>Carbon Black(1333-86-4)</b>   |   |
| Bioaccumulative potential  | No data available   |
| EC50 Toxicity to algae   | Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201)   |
| EC50 Toxicity to daphnia and other aquatic invertebrates   | Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202)   |
| Mobility in soil   | No data available   |
| PBT and vPvB assessment  | Not available/not required  |
| Persistence and degradability  | No data available   |
| Toxicity to fish LC50  | Danio rerio (zebra fish) >1000 mg/l - 96 h  |
| <b>Crystalline Silica(14808-60-7)</b>  |   |
| Bioaccumulative potential  | no data available   |
| Mobility in soil   | no data available   |
| PBT and vPvB   | not available/not required  |
| Persistence and degradability  | no data available   |
| Toxicity   | no data available   |
| <b>Iron Oxide(1309-37-1)</b>   |   |
| Bioaccumulative potential  | No data available   |
| Mobility in soil   | No data available   |
| Other adverse effects  | No data available   |
| PBT and vPvB   | Not available/not required  |
| Persistence and degradability  | No data available   |
| Toxicity   | No data available   |
| <b>Limestone(1317-65-3)</b>  |   |
| Ecotoxicity  | No data available   |
| Environmental  | No information reported   |
| Physical   | No information available  |
| <b>Silicon Dioxide(7631-86-9)</b>  |   |
| Bioaccumulative potential  | No data available   |
| Mobility in soil   | No data available   |
| PBT and vPvP   | Not available/not required  |
| Persistence and degradability  | No data available   |
| Toxicity   | No data available   |
| <b>Titanium Dioxide(13463-67-7)</b>  |   |
| Bioaccumulative potential  | No data available   |
| Mobility in soil   | No data available   |
| PBT and vPvV   | Not available/not required  |
| Persistence and degradability  | No data available   |



|   |                             |
|---|-----------------------------|
| Toxicity to daphnia and other aquatic invertebrates - EC0 - Daphnia magna (water flea)  | 1000 mg/L / 48 h            |
| Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (water flea) | > 1000 mg/L / 48 h          |
| Toxicity to fish - LC50 - other fish  | > 1000 mg/L / 96 h          |
| <b>Zinc Stearate(557-05-1)</b>  |                             |
| Bioaccumulative potential   | No data available           |
| Mobility in soil  | No data available           |
| Other adverse effects   | No data available           |
| PBT and vPvB  | Not available/not required  |
| Persistence and degradability   | 50% - readily biodegradable |
| Toxicity  | 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 RESTRCITIONS 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.

| <b>This product contains:</b>  | <b>Chemical CAS#</b> |
|--------------------------------|----------------------|
| Titanium Dioxide               | 13463-67-7           |
| 1,3,5-Triglycidyl Isocyanurate | 2451-62-9            |
| Silicon Dioxide                | 7631-86-9            |
| Carbon Black                   | 1333-86-4            |

**SARA 313 :** No SARA 313 chemicals are present**CLEAN AIR ACT :****INTERNATIONAL REGULATIONS****CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP) :**

|                   |      |  |
|-------------------|------|--|
| Eye Dam. 1        | H318 | Causes serious eye damage                                      |
| Skin Sens. 1      | H317 | May cause an allergic skin reaction                            |
| Muta. 1B          | H340 | May cause genetic defects                                      |
| Carc. 2           | H351 | Suspected of causing cancer                                    |
| STOT RE 1         | H372 | Causes damage to organs through prolonged or repeated exposure |
| Aquatic Chronic 3 | H412 | Harmful to aquatic life with long lasting effects              |

**NATIONAL REGULATIONS**

| <b>This product contains:</b> | <b>Chemical CAS#</b> |
|-------------------------------|----------------------|
| #Titanium Dioxide             | 13463-67-7           |
| #Carbon Black                 | 1333-86-4            |

**National Regulations Key**

# Indicates a chemical listed by IARC as a possible carcinogen.

**STATE REGULATIONS****CALIFORNIA PROPOSITION 65**

| <b>This product contains:</b> | <b>Chemical CAS#</b> |
|-------------------------------|----------------------|
| *Titanium Dioxide             | 13463-67-7           |
| *Crystalline Silica           | 14808-60-7           |

**California Proposition 65 Key**



\*This product contains (a) chemical (s) known to the State of California to cause cancer.

#This product contains (a) chemical (s) known to the State of California to be carcinogenic.

+This product contains (a) chemical (s) known to the State of California to cause birth defects or other reproductive harm.

**Massachusetts Right to Know**

| <b>This product contains</b> | <b>Chemical CAS#</b> |
|------------------------------|----------------------|
| Titanium Dioxide             | 13463-67-7           |
| Limestone                    | 1317-65-3            |
| Amorphous Silica             | 112926-00-8          |
| Carbon Black                 | 1333-86-4            |
| Iron Oxide                   | 1309-37-1            |
| Zinc Stearate                | 557-05-1             |
| Crystalline Silica           | 14808-60-7           |
| Barium Sulfate               | 7727-43-7            |

**Pennsylvania Right to Know**

| <b>This product contains</b>   | <b>Chemical CAS#</b> |
|--------------------------------|----------------------|
| Titanium Dioxide               | 13463-67-7           |
| Limestone                      | 1317-65-3            |
| 1,3,5-Triglycidyl Isocyanurate | 2451-62-9            |
| Amorphous Silica               | 112926-00-8          |
| Carbon Black                   | 1333-86-4            |
| Iron Oxide                     | 1309-37-1            |
| Zinc Stearate                  | 557-05-1             |
| Crystalline Silica             | 14808-60-7           |
| 2-Mercaptobenzothiazole        | 149-30-4             |
| Barium Sulfate                 | 7727-43-7            |

**New Jersey Right to Know**

| <b>This product contains</b>   | <b>Chemical CAS#</b> |
|--------------------------------|----------------------|
| Titanium Dioxide               | 13463-67-7           |
| Limestone                      | 1317-65-3            |
| 1,3,5-Triglycidyl Isocyanurate | 2451-62-9            |
| Amorphous Silica               | 112926-00-8          |
| Carbon Black                   | 1333-86-4            |
| Iron Oxide                     | 1309-37-1            |
| Zinc Stearate                  | 557-05-1             |
| Crystalline Silica             | 14808-60-7           |
| 2-Mercaptobenzothiazole        | 149-30-4             |
| Barium Sulfate                 | 7727-43-7            |



**16. OTHER INFORMATION**

**Other Product Information:**

|                        |       |                        |       |
|------------------------|-------|------------------------|-------|
| % Volatile by Volume : | 0.04  | % Volatile by Weight : | 0.03  |
| % Solids by volume :   | 99.96 | % Solids by Weight :   | 99.97 |

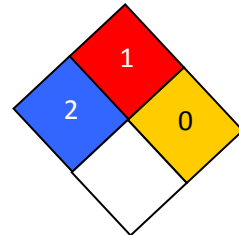
**VOC CONTENT:**

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.