

T241-GR142 GRAY

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T241-GR142 GRAY

PRODUCT USE: Industrial Powder Coating

MANUFACTURER 24 HR. EMERGENCY TELEPHONE NUMBER

Cardinal Paint and Powder CHEMTREC (US Transportation): (800)424-9300 **CHEMTREC (International Transportation)**: (202)483-7616 1329 Potrero Ave

S. El Monte, CA, 91733 WEB: WWW.CARDINALPAINT.COM 626 444-9274

2. HAZARDS IDENTIFICATION

PICTOGRAMS:



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

H340 May cause genetic defects.

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P202 Do not handle until all safety precautions have been read and understood.

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 | |
| Aluminum Oxide | <1% | 1344-28-1 | |

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.



SAFETY DATA SHEET

ISSUED: 8/23/2018 **REFERENCE:** GR142-T241

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.

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

| 1,3,5-Triglycidyl Isocyanurate(2451-62-9) | | | |
|-------------------------------------------|------------------------------|--------------------------------------|--|
| ACGIH TLV (Threshold Limit Value) | TWA (Time Weighted Average) | 0.05 mg/m3 8 hours | |
| 2-Mercaptobenzothiazole(149-30-4) | | | |
| USA WEEL | (WEEL) TWA | 5 mg/m3 | |
| Aluminum Oxide(1344-28-1) | | | |
| USA OSHA | (OEL) Table Z-1, TWA | 15 mg/m3 | |
| USA ACGIH | (TLV) TWA | 1 mg/m3 | |
| Amorphous Pyrogenic Silica(112945-52-5 | 5) | | |
| USA OSHA | USA OSHA TWA (OEL Table Z-3) | 80 mg/m3 3/%SiO2 | |
| USA NIOSH | USA NIOSH TWA (REL) | 6 mg/m3 | |
| 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 | |
| Carbon Black(1333-86-4) | | | |
| ACGIH TLV (Threshold Limit Value) | TWA (Time Weighted Average) | 3 mg/m3 8 hours | |
| OSHA PEL (Permissible Exposure Limit) | TWA (Time Weighted Average) | 3.5 mg/m3 8 hours | |
| NIOSH REL (Recommended Exposure Limit) | TWA (Time Weighted Average) | 3.5 mg/m3 8 hours | |
| NIOSH REL (Recommended Exposure Limit) | TWA (Time Weighted Average) | 0.1mg of PAHs/cm3 10 hours | |
| 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 | : | 1.7691 |
| 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: Avoid contact with strong oxidizing agents.

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



11. TOXICOLOGICAL INFORMATION

| 1.2 F Trial vaidul Issay any mate (24F1 C2 O) | |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1,3,5-Triglycidyl Isocyanurate(2451-62-9) | 100 200 mg/kg |
| Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat - | 100 - 200 mg/kg > 650 mg/m3 |
| | > 650 mg/m3 |
| male - 4 h Acute toxicity - LD50 - Dermal - rat- male | > 2000 mg/kg |
| & female | > 2000 mg/kg |
| | Mild alia initation 24 haves |
| Skin irritation - rabbit | Mild skin irritation - 24 hours |
| Eye irritation - rabbit | Severe eye irritation |
| Respiratory or skin sensation - | May cause sensitization by skin contact |
| Maximization test - guinea pig | To vive heate above does to receive off at |
| Germ cell mutagenicity | In vivo tests showed mutagenic effects |
| Germ cell mutagenicity - AMES test - S. typhimurium | Positive |
| Germ cell mutagenicity - AMES test - | Positive |
| mouse - male | |
| 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 by NTP |
| OSHA | No component of this product present at levels greater than or equal to |
| 33.00 | 0.1% is identified as a carcinogen or potential carcinogen by OSHA |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single | No data available |
| exposure | |
| Specific target organ toxicity - repeated | No data available |
| exposure | |
| Aspiration hazard | No data available |
| Additional information | To the best of our knowledge, the chemical, physical, and toxicological |
| , radicional información | properties have not been thoroughly investigated |
| 2-Mercaptobenzothiazole(149-30-4) | |
| Acute toxicity - LD50 - oral - male and | 3800 mg/kg |
| femal rat | 5 5 5 5 Mg/ Mg |
| Acute toxicity - LC50 - inhalation - rat | > 1270 mg/m3 |
| Acute toxicity - LD50 - dermal - male and | > 7940 mg/kg |
| female rabbit | , , , , , , , , , , , , , , , , , , , |
| Skin irritation - rabbit | No skin irritation / 24 h |
| Eye irritation - rabbit | No eye irritation / 24 h |
| Respiratory or skin sensitisation - Buehler | May cause allergic skin reaction |
| test - guinea pig | ,, |
| Respiratory or skin sensitisation - | May cause allergic skin reaction |
| Maximisation test - guinea pig | |
| Germ cell mutagenicity - Ames test - S. | Negative |
| typhimurium | |
| Germ cell mutagenicity - male and female | Negative |
| mouse | |
| 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 | No data available |
| exposure | |
| exposure Specific target organ toxicity - repeated | No data available No data available |
| exposure Specific target organ toxicity - repeated exposure | No data available |
| exposure Specific target organ toxicity - repeated | |



| 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 |
| Aluminum Oxide(1344-28-1) | Proposition 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 10 |
| Acute toxicity - LD50 - oral - rat | > 10,000 mg/kg |
| Acute toxicity - LC50 - inhalation - rat | > 2.6 mg/L / 4 h |
| Acute toxicity - dermal | No data available |
| Skin irritation - rabbit | No skin irritation |
| Eye irritation - rabbit | No eye irritation |
| Respiratory or skin sensitisation - maximisation test - guinea pig | DId not cause sensitisation on laboratory animals |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification |
| 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 |
| 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 | Cough, chest pain, difficulty in breathing, gastrointestinal disturbance |
| Addittional information | Liver irregularities based on human evidence |
| Amorphous Pyrogenic Silica(112945-52-5) | |
| Acute toxicity - Inhalation | No data available |
| Acute toxicity - Dermal | No data available |
| Skin irritation | No data available |
| Respiratory or skin sensation | No data available |
| Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat | Body fluid assay Unscheduled DNA synthesis |
| Carcinogenicity - Rat - Inhalation | Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or |
| - , | respiration: tumors |
| IARC | Not classifiable as to its carcinogenicity to human |
| 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 as known or anticipated carcinogen |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is identifed 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 |
| Additional information | Stomach irregularities based on human evidence |
| 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 Carcinogenicity: IAPC: Group 3: | no data available |
| Carcinogenicity: IARC: Group 3: | not classifiable as to its carcinogenicity to humans no component of this product present at levels greater than or equal to |
| 7.0011 | 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 | no data available |
| exposure Specific target organ toxicity - repeated | no data available |
| exposure | |
| 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 |
| Barium Sulfate(7727-43-7) | |
| 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 - mouse - micronucleus test | No reported data |
| Carcinogenicity - rat - intrapleural - | Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or |
| tumorigenic | Respiration: Tumors |
| 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 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 | 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 |
| Carbon Black(1333-86-4) | |
| LD50 Oral - Rat | > 8,000 mg/kg, male and female, (OECD Test Guideline 401) |
| LD50 Inhalation - Rat | No data available |
| LD50 Dermal - Rabbit | > 3,000 mg/kg |
| Skin corrosion/irritation | No skin irritation - 24 h, (OECD Test Guideline 404) |
| Eye damage/irritation - Rabbit | No eye irritation, (OECD Test Guideline 405) |
| Respiratory/skin sensitization - Guinea pig | Did not cause sensitization on laboratory animals, (OECD Test Guideline 406) |
| Germ cell mutagenicity | Ames test, S. typhimurium, negative |
| Hamster - Ovary | Negative |
| DNA repair - Rat - Female Carcinogenicity - Rat - Inhalation | Negative 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. |
| IARC | 2B - Group 2B: Possibly carcinogenic to humans (carbon black) |
| NTP | No component of this product present at levels greater than or equal to0.1% is identified as a known or anticipated carcinogen by NTP |



| 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 |
| Organ toxicity | Specific target organ toxicity - single exposure: No data available |
| Organ toxicity | Specific target organ toxicity - repeated exposure: No data available |
| Aspiration hazard | No data available |
| Additional Information | RTECS: FF5800000 To the best of our knowledge, the chemical, physical, |
| | and toxicological properties have not been throughly investigated. |
| Pentaerythritol tetrakis(6683-19-8) | , |
| Acute toxicity - LD50 - oral - male rat | > 5000 mg/kg |
| Acute toxicity - LC50 - inahalation - male | > 1.95 mg/l / 4h |
| and female rat | × 1.55 mg/1/ +n |
| Acute toxicity - LD50 - dermal - male and | > 3160 mg/kg |
| female rabbit | > 5100 mg/kg |
| Acute toxicity - LD50 - intraperitoneal - rat | > 1000 mg/kg |
| Skin corrosion - rabbit | > 1000 mg/kg No skin irritation - 24 h |
| | |
| Eye irritation - rabbit | No eye irritation |
| Respiratory or skin sesnsitization - guinea | Does not cause skin sensitization |
| pig | |
| Germ cell mutagenicity - Ames test - S. | Negative |
| typhimurium | |
| Mutagenicity - micronucleus test - male | Negative |
| and female hamster | |
| IARC carcinogenicity | 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 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 | No data available |
| exposure | TVO data dvallable |
| Specific target organ toxicity - repeated | No data available |
| exposure | TWO data available |
| Aspiration hazard | No data available |
| Titanium Dioxide(13463-67-7) | No data available |
| | 10000 mg/kg |
| 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 - | No results available |
| micronucleus test | |
| Germ cell mutagenicity - hamster - lungs | DNA inhibition |
| Germ cell mutagenicity - hamster - ovary - | No results available |
| sister chromatid exchange | |
| Germ cell mutagenicity - mouse - | No results available |
| micronucleus test | |
| 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 | No data available |
| exposure | INO data available |
| I EVANORIE | 1 |
| | No data available |
| Specific target organ toxicity - repeated | No data available |
| Specific target organ toxicity - repeated exposure | |
| Specific target organ toxicity - repeated exposure Aspiration hazard | No data available |
| Specific target organ toxicity - repeated exposure | |



| Tris(2,4-ditert-butylphenyl) phosphite(3157 | 0-04-4) |
|---------------------------------------------|----------------------------------------------------------------------------|
| LD50 - oral - male and female rat - Acute | > 6000 mg/kg |
| Toxicity | Service States |
| LD50 - dermal - male and female rat | > 2000 mg/kg |
| Skin irritation - rabbit | No skin irritation / 24 h |
| Eye irritation- rabbit | No eye irritation / 30 s |
| Respiratory or skin sensitization - guinea | Does not cause skin sensitization |
| pig | |
| Germ cell mutagenicity -Ames test | Negative |
| (micronucleus test) - male and femae | |
| hamster | |
| Carcinogenicity - oral - male and female | No adverse effect has been observed in chronic toxicity tests |
| rat | , |
| 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 carconogen by OSHA |
| Reproductive toxicity | Not data available |
| Developmental toxicity - oral - rabbit | No adverse effect has been observed in chronic toxicity tests |
| Specific target organ toxicity - single | No data available |
| exposure | |
| Specific target organ toxicity - repeated | No data available |
| exposure | |
| Additional information | Repeated dose toxicity - rat - male and female - oral - No observed |
| | adverse effect level - >/ 1000 mg/kg |
| Additional information | No adverse effect has been observed in chronic toxicity tests |
| Zinc Stearate(557-05-1) | |
| Acute toxicity - LD50 - oral - rat | > 10000 mg/kg |
| Acute toxicity - dermal | No data available |
| Skin irritation | No data available |
| Eye irritation | No data available |
| 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 |
| 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 | No data available |
| exposure | |
| Specific target organ toxicity - repeated | No data available |
| exposure | |
| Aspiration hazard | No data available |
| Additional information | Aspiration or inhalation may cause chemical pneumonitis., Lung irritation, |
| | chest pain, pulmonary edema |
| Aditional information | Stomach irregularities based on human evidence |

12. ECOLOGICAL INFORMATION

| 1,3,5-Triglycidyl Isocyanurate(2451-62-9) | |
|----------------------------------------------------------------------------------------------------------------|---------------------|
| Toxicity to fish - static test LC50 - danio rerio (zebra fish) | > 77 mg/l - 96 h |
| Toxicity to daphnia and other aquatic invertebrates - Immobilization - EC50 - daphnia magna (water flea) | > 100 mg/l - 24 h |
| Toxicity to algae - growth inhibition - EC50 - Desmodesmus subspicatus | 29 - 30 mg/l - 72 h |



| Persistence and degradability - derobic - exposure time: 4 d d d d d d d d d d d d d d d d d d | Toxicity to bacteria - Respiration inhibition - IC50 - Sludge Treatment | > 100 mg/l 3 h |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Bioaccumulative potential No data available Mobility in soil No data available PBT & NPVB On 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 Toxicity to fish - flow-through test - LC50 - 0.73 mg/L / 96 h Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 Daphnia magna (water flea) Daphnia magna (wat | biodegradability - aerobic - exposure time: | 0.5 - 1% - not biodegradable |
| Mobility in soil No data available PBT & VPVB 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 2-Mercaptobenzothiazole(149-30-4) Toxicity to fish - flow-through test - LC50 - 0.73 mg/L / 96 h rainbow trout Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Daphnia magna (water flea) Toxicity to flage - growth inhibition - EC50 - 3.5 mg/L - 72 h - green algae Persistence and degradability - biotic/aerobic Diodegradability in soil PBT and VPVB 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. Aluminum Oxide(1344-28-1) Toxicity Persistence and degradability No toxicity at the limit of solubility Persistence and degradability Persistence and degradability No data available Dess not bioaccumulate Mobility in soil No data available No data available No data available PBT and VPVB No data available No data available PBT and VPVB No data available No data available PBT and VPVB No data available PBT and VPVB No data available PBT and VPVB No data available No data available PBT and VPVB No data available | | No data available |
| Other adverse effects Other adverse effects Other adverse effects 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. Toxicity to fish - flow-through test - LC50 - 0.73 mg/L / 96 h Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - EC50 - Daphnia magna (water flea) Bioaccumulative potential - bioaccumulative potential - Bioaccumulative potential - Successive flex of the province of the provin | | |
| 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 2-Mercaptobenzothiazole(149-30-4) Toxicity to fish - flow-through test - LC50 - arainbow trout Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea) Toxicity to agae - growth inhibition - EC50 3- green algae Persistence and degradability - biotic/aerobic Bioaccumulative potential - bioaccumulation - carp Mobility in soil PBT and vPvB An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Aluminum Oxide(1344-28-1) Toxicity Persistence and degradability PBT and vPvB No data available Bioaccumulative potential Mobility in soil No data available PBT and vPvB No data available Bioaccumulative potential Mobility in soil No data available PBT and vPvB No data available No data available PBT and vPvB No | | |
| 2-Mercaptobenzothiazole(149-30-4) Toxicity to fish - flow-through test - LCS0 - nainbow trout Toxicity to fish - flow-through test - LCS0 - nainbow trout Toxicity to daphnia and other aquatic invertebrates - immobilization ECS0 - Daphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - immobilization ECS0 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - ECS0 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - ECS0 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - ECS0 - green algae Persistence and degradability - biodegradability in soil Bioaccumulative potential - carp Bioaccumulative potential - Not availabile/not required 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. Aluminum Oxide(1344-28-1) Toxicity Persistence and degradability In methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Mobility in soil PBT and vPvB Not data available Notity Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPvB Not data available Not data available Notity Persistence and degradability Not data available PBT and vPvB Not data available Notity Persistence and degradability Not data available Notity Persistence and degradability Not data available PBT and vPvB Not data available Notity Persistence and degradability Notata available Notity Notata available PBT and vPvB Notata available Notata available Notata available PBT and vPvB Notata available Notata available Notata available PBT and vPvB Notata available Notata available Notata avai | - | |
| Z-Mercaptobenzothiazole(149-30-4) | Other adverse effects | unprofessional handling or disposal. Harmful to aquatic life with long |
| Trainbow trout Toxicity to daphnia and other aquatic Invertebrates - immobilization ECS0 - Daphnia magna (water flea) Toxicity to algae - growth inhibition - ECS0 0.5 mg/L - 72 h - green algae Persistence and degradability - biodegradability - biotocytocytocytocytocytocytocytocytocytoc | 2-Mercaptobenzothiazole(149-30-4) | |
| invertebrates - immobilization ECSO - Daphnia magna (water flea) Toxicity to algae - growth inhibition - ECSO - green algae Persistence and degradability - biotegradability - biotecumulative potential - bioaccumulative potential - Bioconcentration factor Mobility in soil No data available PBT and VPVB Not available/not required An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility The methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Does not bioaccumulate Mobility in soil No data available PBT and VPVB Not available/not required Other adverse effects Amorphous Pyrogenic Silica(112945-52-5) Toxicity No data available Bioaccumulative potential No data available Mobility in soil No data available PBT and VPVB No data available Mobility in soil No data available Mobility in soil No data available PBT and VPVB No data available Mobility in soil No data available Mobility in soil No data available PBT and VPVB No data available Mobility in soil No data available Mobility in soil No data available Mobility in soil No data available PBT and VPVB No data available Mobility in soil No data available PBT and VPVB No data available No data available Mobility in soil No data available No data available PBT and VPVB No data available No data available PBT and VPVB No data available No data available No data available PBT and VPVB No data available No data available No data available PBT and VPVB No data available No data available No data available No data available | rainbow trout | 5 , , |
| Persistence and degradability - biodegradability - biodegradability - biodegradability - biodegradability - biodegradability - biodegradability - biotic/aerobic Bioaccumulation - carp Bioaccumulation - carp Bioaccumulation - carp Bioaccumulative potential - bioscumulation - carp Bioaccumulative potential - Bioconcentration factor Mobility in soil PBT and vPvB 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. Aluminum Oxide(1344-28-1) Toxicity Persistence and degradability Persistence and degradability in soil Mobility in soil PBT and vPvB Other adverse effects No data available PBT and vPvB Not available/not required Other adverse effects No data available Persistence and degradability No data available No data available Persistence and degradability No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available No data available Persistence and degradability No data available Persistence and degradability No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available No da | invertebrates - immobilization EC50 - Daphnia magna (water flea) | |
| biodegradability - biotic/aerobic Bioaccumulation - carp Mobility in soil PBT and vPvB Not available/not required 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. Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility The methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Does not bioaccumulate Mobility in soil No data available PBT and vPvB Not available/not required Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) Toxicity Persistence and degradability No data available Bioaccumulative potential Mobility in soil No data available Bioaccumulative potential No data available Bioaccumulative potential No data available PBT and vPvB No data available Bioaccumulative potential No data available PBT and vPvB No data available Bioaccumulative potential No data available PBT and vPvB No data available Nobility in soil No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available Desristence and degradability No data available Nobility in soil No data available Nobility in soil No data available Desristence and degradability No data available Nobility in soil No data available Desristence and degradability No data available Nobility in soil N | - green algae | - |
| Bioaccumulation - carp Bioaccumulative potential - Biocconcentration factor 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. Very toxic to aquatic life with long lasting effects. Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Does not bioaccumulate Mobility in soil No data available PBT and vPvB Not available/not required Other adverse effects No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Mobility in soil No data available PBT and vPvB not available/not required Mobility in soil No data available PBT and vPvB not available/not required Amorphous Silica(11292-00-8) Toxicity No data available PBT and vPvB not available/not required Amorphous Bilica(11292-00-8) Toxicity no data available Bioaccumulative potential no data available Mobility in soil no data available Mobility in soil no data available PBT and vPvB not available/not required Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB not available/not required Barim Sulfate(7727-43-7) Toxicity No data available PBT and vPvB not available/not required Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-36-4) Toxicity to fish LC50 Danio rerio (zebra fish) > 1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Nobility in soil No data available Nobility in soil No data available | | 1% - not readily biodegradable - exposure time: 28 d |
| Bioaccumulative potential - Bioconcentration factor | Bioaccumulative potential - | 0.1 mg/L / 42 d |
| Bioconcentration factor Mobility in soil No data available PBT and vPvB 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. Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Mobility in soil No data available PBT and vPvB Not available/not required Other adverse effects No data available Persistence and degradability No data available Bioaccumulative potential Mobility in soil No data available Bioaccumulative potential Mobility in soil No data available PBT and vPvB Not available/not required Notata available Bioaccumulative potential Mobility in soil No data available PBT and vPvB Not available/not required Amorphous Silica(11292-60-8) Toxicity No data available Bioaccumulative potential No data available Nobility in soil No data available Notata available | bioaccumulation - carp | |
| Mobility in soil Not adat available | | < 0.8 |
| PBT and vPvB 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. Aluminum Oxide(1344-28-1) Toxicity Persistence and degradability Persistence and degradability Persistence and degradability Persistence and degradability No toxicity at the limit of solubility Persistence and degradability Does not bioaccumulate Mobility in soil No data available PBT and vPvB Not available/not required Other adverse effects No data available Persistence and degradability Ro data available Persistence and degradability No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available No data available Persistence and degradability No data available No data available Persistence and degradability No data available No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB 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. Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility Persisitence and degradability The methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Does not bioaccumulate Mobility in soil PBT and vPvB No data available Amorphous Pyrogenic Silica(112945-52-5) Toxicity No data available Persistence and degradability No data available Mobility in soil No data available Mobility in soil No data available Persistence and degradability No data available Persistence and degradability no data available Persistence and degradability No data available Mobility in soil No data available Mobility in soil PBT and vPvB No data available Mobility in soil No data available PBT and vPvB No data available No data available Mobility in soil No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available No data available No data available PBT and vPvB No data available PBT and vPvB No data available | | |
| unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Aluminum Oxide(1344-28-1) Toxicity Persisitence and degradability Persisitence and degradability No toxicity at the limit of solubility Persisitence and degradability No data available PBT and vPvB Not available/not required Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) Toxicity No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB Amorphous Silica(112945-00-8) Toxicity No data available PBT and vPvB No data available PBT and vPvB no data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB Toxicity No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available No data available No data available PBT and vPvB No data available No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available No data available PBT and vPvB No data available | | |
| Aluminum Oxide(1344-28-1) Toxicity No toxicity at the limit of solubility Persistience and degradability No data available PBT and vPVB Amorphous Silica(11294-50-8) Toxicity No data available No data available No data available PBT and vPVB No toxicity no data available No data available Persistence and degradability No data available PBT and vPVB No data available | Other adverse effects | |
| Aluminum Oxide(1344-28-1) Toxicity Persisitence and degradability PBT and VPVB No data available PBT and VPVB No data available PBT and VPVB No data available Persistence and degradability Persistence and degradability Persistence and degradability No data available No data available Persistence and degradability No data available PBT and VPVB No data available No data available No data available PBT and VPVB No data available Persistence and degradability No data available Persistence and degradability No data available PBT and VPVB Darium Sulfate(7727-43-7) Toxicity No data available PBT and VPVB No data available No data available PBT and VPVB Danior required Carbon Black(1333-86-4) Toxicity to daphnia and other aquatic invertebrates Carbon Black(1333-86-4) Danior rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates Carbon Black(1333-86-4) Danior rerio (zebra fish) >1000 mg/l - 24 h (OECD Test Guideline 201) Persistence and degradability No data available No data available No data available No data available | | |
| Toxicity Persistence and degradability PBT and vPVB No data available PBT and vPVB Other adverse effects No data available Persistence and degradability Persistence and degradability No data available PBT and vPVB No data available Persistence and degradability No data available PBT and vPVB No data available Persistence and degradability No data available PBT and vPVB No data available Bioaccumulative potential Mobility in soil Persistence and degradability No data available Bioaccumulative potential No data available PBT and vPVB No data available PBT and vPVB No data available Persistence and degradability Deal available No data available No data available Deal Deal Deal Deal Deal Deal Deal Deal | | lasting effects. |
| Persistence and degradability In methods for determining biodegradability are not applicable to inorganic substances Bioaccumulative potential Mobility in soil PBT and vPvB No data available Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) Toxicity Persistence and degradability Ro data available Persistence and degradability No data available Bioaccumulative potential No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available No data available PBT and vPvB No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available PBT and vPvB Danio rerio (zebra fish) > 1000 mg/l - 96 h ECS0 Toxicity to daphnia and other aquatic invertebrates Carbon Black(1333-86-4) Danio rerio (zebra fish) > 1000 mg/l - 24 h (OECD Test Guideline 201) Persistence and degradability No data available | | |
| Bioaccumulative potential Does not bioaccumulate Mobility in soil No data available PBT and vPvB Not available/not required Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Amorphous Silica(112926-00-8) Toxicity No data available PBT and vPvB No data available Persistence and degradability No data available Persistence and degradability No data available Bioaccumulative potential No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available Mobility in soil No data available Mobility in soil No data available PBT and vPvB No data available | | |
| Mobility in soil No data available PBT and VPVB Not available/not required Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) 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 Amorphous Silica(112926-00-8) Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available Bioaccumulative potential no data available Bioaccumulative potential no data available PBT and VPVB not available/not required Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability in soil of data available Persistence and degradability in soil No data available PBT and VPVB not available/not required Bioaccumulative potential No data available Mobility in soil No data available PBT and VPVB not available/not required Carbon Black(1333-86-4) EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to daphnia and other aquatic invertebrates Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Mobility in soil No data available | | inorganic substances |
| PBT and vPvB Other adverse effects No data available. Amorphous Pyrogenic Silica(112945-52-5) Toxicity No data available Persistence and degradability No data available Mobility in soil PBT and vPvB Amorphous Silica(112926-00-8) Toxicity No data available Persistence and degradability No data available PBT and vPvB Amorphous Silica(112926-00-8) Toxicity No data available Persistence and degradability No data available Robility in soil No data available PBT and vPvB No data available Robility in soil No data available PBT and vPvB No data available Robility in soil No data available Persistence and degradability No data available PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available Nobility in soil No data available PBT and vPvB No data available No data available PBT and vPvB No data available No data available PBT and vPvB No data available Nobility in fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 201) Persistence and degradability No data available Nobility in soil No data available | | |
| Other adverse effects Amorphous Pyrogenic Silica (112945-52-5) Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available Persistence and degradability No data available Persistence and degradability No data available Bioaccumulative potential No data available PBT and vPvB No data available PBT and vPvB No data available Persistence and degradability No data available PBT and vPvB No data available Persistence and degradability No data available Persistence and degradability No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available PBT and vPvB Danio rerio (zebra fish) > 1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Persistence and degradability No data available Bioaccumulative potential No data available No data available | | |
| Amorphous Pyrogenic Silica(112945-52-5) | | |
| 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 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 Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | NO data available. |
| Persistence and degradability Bioaccumulative potential Mobility in soil No data available PBT and vPvB No data available PBT and vPvB No data available/not required Amorphous Silica(112926-00-8) Toxicity No data available Persistence and degradability No data available Bioaccumulative potential Mobility in soil PBT and vPvB No data available Nobility in soil PBT and vPvB No data available PBT and vPvB No data available PBT and vPvB No data available Persistence and degradability No data available Persistence and degradability No data available Daphnia magna (Water flea) > 5600 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available | | No data available |
| Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required 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 Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available PBT and vPvB rot available PBT and vPvB not available PBT and vPvB not available PBT and vPvB No data available Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline invertebrates 202) EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Mobility in soil No data available No data available | / | |
| Mobility in soil No data available PBT and vPvB not available/not required Amorphous Silica(112926-00-8) Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available PBT and vPvB not available/not required Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available Mobility in soil No data available PBT and vPvB not available Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates 202) EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available No data available | | |
| PBT and vPvB Amorphous Silica(112926-00-8) Toxicity Persistence and degradability Bioaccumulative potential PBT and vPvB Toxicity No data available Boiaccumulative potential PBT and vPvB Toxicity No data available Persistence and degradability No data available PBT and vPvB Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available PBT and vPvB No data available Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline invertebrates Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available No data available No data available No data available | | |
| 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 Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | |
| 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 Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | Tion available/flot required |
| Persistence and degradability Bioaccumulative potential Mobility in soil PBT and VPVB No data available Persistence and degradability No data available Mobility in soil PBT and vPVB Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h Dayhnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available | | no data available |
| Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB not available/not required Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates PEC50 Toxicity to algae EC50 Toxicity to algae Persistence and degradability No data available Bioaccumulative potential No data available | | |
| Mobility in soil no data available PBT and vPvB not available/not required Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates PEC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | Bioaccumulative potential | |
| PBT and vPvB not available/not required Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates 202) EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | |
| Barium Sulfate(7727-43-7) Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates invertebrates Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | |
| Toxicity No data available Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates 202) EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | |
| Persistence and degradability The methods for determining biodegradability are not applicable in inorganic substances Bioaccumulative potential Mobility in soil No data available PBT and vPvB Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates invertebrates CE50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential Mobility in soil No data available No data available No data available | | No data available |
| Bioaccumulative potential Mobility in soil No data available PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | The methods for determining biodegradability are not applicable in |
| Mobility in soil PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | Bioaccumulative potential | |
| PBT and vPvB not available/not required Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates 202) EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | | |
| Carbon Black(1333-86-4) Toxicity to fish LC50 Danio rerio (zebra fish) >1000 mg/l - 96 h EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability No data available Bioaccumulative potential Mobility in soil No data available No data available | PBT and vPvB | not available/not required |
| Toxicity to fish LC50 EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae EC50 Toxicity to algae EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability Bioaccumulative potential Mobility in soil No data available No data available | Carbon Black(1333-86-4) | |
| EC50 Toxicity to daphnia and other aquatic invertebrates EC50 Toxicity to algae EC50 Toxicity to algae Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) Persistence and degradability Bioaccumulative potential Mobility in soil Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201) No data available No data available | Toxicity to fish LC50 | Danio rerio (zebra fish) >1000 mg/l - 96 h |
| Guideline 201) Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available | invertebrates | Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202) |
| Persistence and degradability Bioaccumulative potential Mobility in soil No data available No data available | EC50 Toxicity to algae | |
| Bioaccumulative potential No data available Mobility in soil No data available | Persistence and degradability | |
| Mobility in soil No data available | | |
| | | No data available |
| | PBT and vPvB assessment | Not available/not required |



| Pentaerythritol tetrakis(6683-19-8) | |
|-----------------------------------------------|-------------------------------------------------|
| Toxicity to fish - static LC50 - zebra fish | > 100 mg/L / 96 h |
| Toxicity to daphnia and other aquatic | > 86 mg/L / 24 h |
| invertebrates - immobilization EC50 - | 2 00 mg/L/ 21 m |
| daphnia magna (water flea) | |
| Toxicity to algae - static EC50 - | > 100 mg/L / 72 h |
| Scenedesmus subspicatus | 7 100 mg/2 / 72 m |
| Toxicity to bacteria - respiration inhibition | > 100 mg/L / 3 h |
| IC50 - sludge treatment | · · · · · · · · · · · · · · · · |
| Persistence and degradability - | 5% - not biodegradable : exposure time - 28 d |
| biodegradability - aerobic | |
| 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 | > 1000 mg/L / 48 h |
| invertebrates - EC50 - Dapphnia magna | |
| (water flea) | |
| Toxicity to daphnia and other aquatic | 1000 mg/L / 48 h |
| invertebrates - ECO - Daphnia magna | <i>3, , , ,</i> |
| (water flea) | |
| 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 |
| Tris(2,4-ditert-butylphenyl) phosphite(31570 | 0-04-4) |
| Toxicity to fish - static LC0 - zebra fish | 100 mg/L / 96 h |
| Toxicity to daphnia and other aquatic | 510 mg/L / 24 h |
| invertebrates - static EC50 - Daphnia | |
| magna | |
| Toxicity to algae - static EC50 - | > 75 mg/L / 72 h |
| Scenedesmus subspicatus | |
| Toxicity to bacteria - respiration inhibition | > 100 mg/L / 3 h |
| IC50 - sludge treatment | |
| Persistence and degradability - | 6% - not readily biodegradable - exposure: 28 d |
| biodegradability - aerobic | |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB | not available/not required |
| Zinc Stearate(557-05-1) | |
| Toxicity | No data available |
| Persistence and degradability | 50% - readily biodegradable |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| PBT and vPvB | 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.

ARDINAL SAFETY DATA SHEET

ISSUED: 8/23/2018 **REFERENCE:** GR142-T241

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.



SAFETY DATA SHEET

ISSUED: 8/23/2018 **REFERENCE:** GR142-T241

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 |
| 1,3,5-Triglycidyl Isocyanurate | 2451-62-9 |
| Aluminum Oxide | 1344-28-1 |

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

| 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 |
| *Carbon Black | 1333-86-4 |
| *2-Mercaptobenzothiazole | 149-30-4 |

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 <u>WWWPROP65.CA.GOV</u>.

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 <u>WWWPROP65.CA.GOV</u>.

Massachusetts Right to Know

| This product contains | Chemical CAS# |
|-----------------------|---------------|
| Titanium Dioxide | 13463-67-7 |
| Barium Sulfate | 7727-43-7 |
| Aluminum Oxide | 1344-28-1 |
| Zinc Stearate | 557-05-1 |
| Amorphous Silica | 112926-00-8 |
| Carbon Black | 1333-86-4 |

Pennsylvania Right to Know

| This product contains | Chemical CAS# |
|----------------------------------------|---------------|
| Titanium Dioxide | 13463-67-7 |
| Barium Sulfate | 7727-43-7 |
| Aluminum Oxide | 1344-28-1 |
| Zinc Stearate | 557-05-1 |
| Pentaerythritol tetrakis | 6683-19-8 |
| Amorphous Silica | 112926-00-8 |
| Tris(2,4-ditert-butylphenyl) phosphite | 31570-04-4 |
| Carbon Black | 1333-86-4 |
| Amorphous Pyrogenic Silica | 112945-52-5 |
| 2-Mercaptobenzothiazole | 149-30-4 |



New Jersey Right to Know

| This product contains | Chemical CAS# |
|----------------------------------------|---------------|
| Titanium Dioxide | 13463-67-7 |
| Barium Sulfate | 7727-43-7 |
| 1,3,5-Triglycidyl Isocyanurate | 2451-62-9 |
| Aluminum Oxide | 1344-28-1 |
| Zinc Stearate | 557-05-1 |
| Pentaerythritol tetrakis | 6683-19-8 |
| Amorphous Silica | 112926-00-8 |
| Tris(2,4-ditert-butylphenyl) phosphite | 31570-04-4 |
| Carbon Black | 1333-86-4 |
| Amorphous Pyrogenic Silica | 112945-52-5 |
| 2-Mercaptobenzothiazole | 149-30-4 |



RDINAL SAFETY DATA SHEET

ISSUED: 8/23/2018 **REFERENCE:** GR142-T241

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

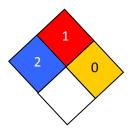
VOC CONTENT:

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.