

# C209-WH492 WHITE RAL 9010

# 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** C209-WH492 WHITE RAL 9010 **PRODUCT USE: Industrial Powder Coating** 

**MANUFACTURER** 

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

24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC (US Transportation): (800)424-9300 **CHEMTREC (International Transportation)**: (202)483-7616

WEB: WWW.CARDINALPAINT.COM

# 2. HAZARDS IDENTIFICATION

### **PICTOGRAMS:**



**SIGNAL WORD: WARNING** 

# **HAZARD STATEMENTS:**

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H317 May cause an allergic skin reaction.

# PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

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

P260 Do not breathe dust.

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name    | Weight %  | CAS Number |
|------------------|-----------|------------|
| Titanium Dioxide | 30% - 35% | 13463-67-7 |
| 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.

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.



# **SAFETY DATA SHEET**

**ISSUED:** 8/21/2018 **REFERENCE:** WH492-C209

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

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

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

### **5. FIRE FIGHTING MEASURES**

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

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use heavy water stream.

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

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

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

### **6. ACCIDENTAL RELEASE MEASURES**

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

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

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

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

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

### 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when you are leaving work. Provide good ventilation in process area. Use only in well ventilated areas. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust, fumes and/or vapors.

Hygiene measures: Wash Skin thoroughly after handling.

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

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.



# 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

| Aluminum Oxide(1344-28-1)             |                              |                                      |  |  |
|---------------------------------------|------------------------------|--------------------------------------|--|--|
| USA OSHA                              | (OEL) Table Z-1, TWA         | 15 mg/m3                             |  |  |
| USA ACGIH                             | (TLV) TWA                    | 1 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       | TWA (Time Weighted Average)  | 3.5 mg/m3 8 hours                    |  |  |
| Limit)                                |                              |                                      |  |  |
| NIOSH REL (Recommended Exposure       | TWA (Time Weighted Average)  | 0.1mg of PAHs/cm3 10 hours           |  |  |
| Limit )                               |                              |                                      |  |  |
| Diethanolamine(111-42-2)              |                              |                                      |  |  |
| ACGIH TLV (Threshold Limit Value)     | TWA (Time Weighted Average)  | 1.0 mg/m3 8 hours                    |  |  |
| NIOSH REL (Recommended Exposure       | TWA (Time Weighted Average)  | 15 mg/m3 8 hours                     |  |  |
| Limit)                                | T)4/4 (T:                    | 2 01                                 |  |  |
| NIOSH REL (Recommended Exposure       | TWA (Time Weighted Average)  | 3 ppm 8 hours                        |  |  |
| Iron Oxide(1309-37-1)                 | Limit)                       |                                      |  |  |
|                                       | LICA ACCIC (TIN) TIMA        | F / 2                                |  |  |
| USA ACGIH                             | USA ACGIG (TLV) TWA          | 5 mg/m3                              |  |  |
| USA OSHA                              | USA OSHA (OEL) TWA Table Z-1 | 15 mg/m3                             |  |  |
| USA NIOSH                             | USA NIOSH (REL) TWA          | 5 mg/m3                              |  |  |
| Titanium Dioxide(13463-67-7)          |                              |                                      |  |  |
| ACGIH TLV (Threshold Limit Value)     | TWA (Time Weighted Average)  | 10 mg/m3 8 hours                     |  |  |
| OSHA PEL (Permissible Exposure Limit) | TWA (Time Weighted Average)  | 15 mg/m3 8 hours                     |  |  |

# PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** Wear approved dust mask.

**HAND PROTECTION:** Wear protective gloves.

**EYE PROTECTION:** Chemical goggles or safety glasses.

**SKIN AND BODY PROTECTION:** Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state            | : | Solid               |
|---------------------------|---|---------------------|
| Melting point             | : | 55 - 90 deg C       |
| Flash point               | : | No data available.  |
| Lower explosion limit     | : | 10 g/m <sup>3</sup> |
| Upper explosion limit     | : | 70 g/m <sup>3</sup> |
| Density                   | : | 1.6631              |
| Solubility                | : | No data available.  |
| Autoignition temperature  | : | No data available.  |
| Decomposition temperature | : | No data available.  |



# 10. STABILITY AND REACTIVITY

**REACTIVITY:** This product is stable at normal handling and storage conditions.

**CHEMICAL STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Direct sunlight. Extremely high or low temperatures.

**INCOMPATIBLE MATERIALS:** Strong acids. Strong bases.

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

# 11. TOXICOLOGICAL INFORMATION

| Aluminum Oxide(1344-28-1)                                         |                                                                                                                                                             |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity - LD50 - oral - rat                                | > 10,000 mg/kg                                                                                                                                              |
| Acute toxicity - LC50 - inhalation - rat                          | > 10,000 Hig/kg<br>> 2.6 mg/L / 4 h                                                                                                                         |
| Acute toxicity - Leso - Illination - Tat  Acute toxicity - dermal | No data available                                                                                                                                           |
| Skin irritation - rabbit                                          | No skin irritation                                                                                                                                          |
|                                                                   |                                                                                                                                                             |
| Eye irritation - rabbit                                           | No eye irritation                                                                                                                                           |
| Respiratory or skin sensitisation -                               | DId not cause sensitisation on laboratory animals                                                                                                           |
| maximisation test - guinea pig                                    | No determination                                                                                                                                            |
| 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                           | No data available                                                                                                                                           |
| exposure                                                          |                                                                                                                                                             |
| Specific target organ toxicity - repeated                         | No data available                                                                                                                                           |
| exposure                                                          |                                                                                                                                                             |
| Aspiration hazard                                                 | No data available                                                                                                                                           |
| Additional information                                            | Cough, chest pain, difficulty in breathing, gastrointestinal disturbance                                                                                    |
| Addittional information                                           | Liver 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                                            | no data available                                                                                                                                           |
| Carcinogenicity: IARC: Group 3:                                   | not classifiable as to its carcinogenicity to humans                                                                                                        |
| ACGIH                                                             | no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH                 |
| NTP                                                               | no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP                      |
| OSHA                                                              | no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA                  |
| Reproductive toxicity                                             | no data available                                                                                                                                           |
| Specific target organ toxicity - single exposure                  | no data available                                                                                                                                           |
| Specific target organ toxicity - repeated exposure                | no data available                                                                                                                                           |
| Aspiration hazard                                                 | no data available                                                                                                                                           |
| Aspiration nazara                                                 | I no data avaliable                                                                                                                                         |



| 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                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                    | Stomach - irregularities - based on numan 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 -                   | No reported data                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| micronucleus test                                  | No reported data                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                    | Fautive and trumparis against his DTECC evitoria. Lunga. Thousis are                                                                                                                                                                                                                                                                                                                                                                                      |
| Carcinogenicity - rat - intrapleural - tumorigenic | Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors                                                                                                                                                                                                                                                                                                                                                                      |
| IARC                                               | No component of this product present at levels greater than or equal to                                                                                                                                                                                                                                                                                                                                                                                   |
| TANC                                               | 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                                                                                                                                                                                                                                                                                                                                                                                   |
| NTD                                                | 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                                           | 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                          | Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Carcinogenicity - Rat - Inhalation                 | Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or                                                                                                                                                                                                                                                                                                                                                                                            |
| Carcinogenicity - Rat - Inhalation                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                    | Respiration: Tumors. This product is or contains a component that has                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                    | been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP,                                                                                                                                                                                                                                                                                                                                                                                  |
| TARC                                               | 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 to 0.1% is identified as a known or anticipated carcinogen by NTP                                                                                                                                                                                                                                                                                                                    |
| OSHA                                               | No component of this product present at levels greater than 0.1% is                                                                                                                                                                                                                                                                                                                                                                                       |
| Donrodustivo tovisity                              | 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.                                                                                                                                                                                                                                                                                                                                                                                        |
| Diethanolamine(111-42-2)                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| LD50 Oral - Rat - male and female                  | 1,600 mg/kg (OECD Test Guideline 401)                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



| LD50 Intraperitoneal - Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LD50 Dermal - Rabbit            | 12,200 mg/kg                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------|
| LDSO Intravenous - Rat Skin Corrosion/irritation No data available Serious eye damage/eye irritation Rabbit - Risk of serious damage to eyes (OECD Test Guideline 405) Serious eye damage/eye irritation Germ cell mutagenicity Mutagenicity (micronucleus test) Mouse male and female Zeriongenicity - IARC Carcinogenicity - IA |                                 |                                                                             |
| Skin Corrosion/irritation  No data available Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Mutagenicity (micronucleus test) Mouse male and female Carcinogenicity - IARC Carcinogenicity - OSHA 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 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 No data available Reproductive toxicity No data available Specific target organ toxicity - repeated No data available Reposture Additional information Repriation hazard Additional information No data available No data available Additional information No data available No data available No data available Acute toxicity - dermal No data available Acute toxicity - available Additional information No data available No da | LD50 Intravenous - Rat          | 778 ma/ka                                                                   |
| Serious eve demage/eve Irritation Repriatory or (skin sensitization of Clinea pig - Did not cause sensitization on laboratory animals Gern cell mutagenicity Mutagenicity (micronucleus test) Mouse male and female Carcinogenicity - IARC Carcinogenicity - 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 NTP 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 No data available exposure Specific target organ toxicity - repeated exposure  No data available Repeated dose toxicity - rat - male and female - oral Lowest observed additional information  Repeated dose toxicity - rat - male and female - oral Lowest observed additional information  Information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been throcoupity investigated  Liver - Irregularities - Based on Human Evidence  Information - human  Additional information  Information - human  Noder available Systim irritation - human  Eve irritation - human  Moderate eye irritation Systim irritation - human  Moderate eye irritation  Ever irritation - human  Moderate eye irritation  Five irritation - human  Moderate eye irritation  Reproductive toxicity  This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.  To a carcinogenicity - rat - subcutaneous  Equivocal tumoregenic agent by RTECS criteria. Tumors at site of application.  Pro Irritation - human Evidence  Irritation - human Evidence  No data available  No data ava |                                 |                                                                             |
| Respiratory or skin sensitization   Guinea pig - Did not cause sensitization on laboratory animals   Mutagenicity (micronucleus test) Mouse male and female   Carcinogenicity - IARC   28 - Group 28 Possibly carcinogenic to humans   Carcinogenicity - NTP   No component of this product present at levels greater than or equal to   0.19 is identified as a known or anticipated carcinogen by NTP   No component of this product present at levels greater than or equal to   0.19 is identified as a known or anticipated carcinogen by NTP   No component of this product present at levels greater than or equal to   0.19 is identified as a known or anticipated carcinogen by NTP   No data available   Reproductive toxicity   Single   Reproductive toxicity - single   R |                                 |                                                                             |
| Germ cell mutagenicity Micronucleus test Mouse male and female Carcinogenicity - IARC Carcinogenicity - OSHA 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 No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA No data available Reproductive toxicity No data available Sposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure No data available Repeated dose toxicity - rat - male and female - oral Lowest observed additional information Repeated dose toxicity - rat - male and female - oral Lowest observed additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Liver - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human Evidence Sposure - No data available Sposure - No data available Sposure - Spo |                                 |                                                                             |
| Mutagenicity (micronucleus test) Mouse male and female Carcinogenicity - IARC Carcinogenicity - IARC Carcinogenicity - 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 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 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 No data available Specific target organ toxicity - repeated exposure Aspiration hazard No data available No data available No data available Additional information Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS; KL397500 Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Acute toxicity No data available No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified a |                                 |                                                                             |
| male and female Carcinogenicity - IARC Carcinogenicity - IARC Carcinogenicity - NTP No component of this product present at levels greater than or equal to 0.1% is I dentified as a known or anticipated carcinogen by NTP No component of this product present at levels greater than or equal to 0.1% is I dentified as a known or anticipated carcinogen by NTP No component of this product present at levels greater than or equal to 0.1% is I dentified as a carcinogen or potential carcinogen by OSHA Reproductive toxicity No data available Reposure Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure No data available Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: RL297500 Additional information Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: RL297500 Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Additional information Liver - Irregularities - Based on Human Evidence Iron Oxide(1,309-37-1) Acute toxicity - dermal Skin irritation - human Expiratory or skin sensitization Respiratory or skin sensitization sensor or anticipated carcinogen by NTP. No data available Reproductive toxicity Ni data available Reproductive toxicity Ni data available Reproductive toxicity Ni data available Reproductive toxicity - repeated Reproductive toxicity - repeated Reproductive  |                                 |                                                                             |
| Carcinogenicity - IARC  Carcinogenicity - 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  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  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  Specific target organ toxicity - repeated exposure  Aspiration hazard  Aspiration hazard  Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information  Liver - Irrequialrities - Based on Human Evidence  Iron Oxide(1309-37-1)  Acute toxicity  Acute toxicity - dermal  Skin irritation - human  Experimation - human  Moderate experimentation  Experimation - human  Moderate experimentation  Experimation - human  Moderate experimentation  Carcinogenicity - rat - subcutaneous  Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  TarkC  Group 3: not classifiable as to its carcinogenicity to human side of application.  TarkC  Group 3: not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.  Reproductive toxicity - single equivacial tumorogenic agent by RTECS criteria. Tumors at site of application.  This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification on this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.  No data available  Reproductive toxicity - inspect organ toxicity - repeated exposure or include fumor of dust) can cause siderosis. Sincerice or the inspect of productive toxicity - inspect organ toxicity |                                 | Result. Negative                                                            |
| Carcinogenicity - NTP  One component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  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  Reposure  No data available  Reposure  No data available  Reposure  No data available  Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: KL297500  Additional information  Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: KL297500  Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information  Liver - Irregularities - Based on Human Evidence  Iron Oxided 1309-37-11  Acute toxicity - dermal  Skin irritation - human  Skin irritation - human  Skin irritation  Respiratory or skin sensitization  Reporticity - rat - subcutaneous  Skin irritation  No data available  Germ cell mutagenicity - rat - subcutaneous  Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous  Fermitation - human  No data available  Germ cell mutagenicity - rat - subcutaneous  Fermitation - human  No data available  Germ cell mutagenicity - rat - subcutaneous  Fermitation - human - rat levels greater than or equal to only in the product present at levels greater than or equal to only in the product pre |                                 | 2B - Group 2B Possibly carcinogenic to humans                               |
| O.1% is identified as a known or anticipated carcinogen by NTP 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 No data available Specific target organ toxicity - single Specific target organ toxicity - repeated Speposure Specific target organ toxicity - repeated Speposure Aspiration hazard No data available Specific target organ toxicity - repeated Additional information Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: KL297500 Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroushly investigated Liver - Irregularities - Based on Human Evidence Inon Oxide(1309-37-1) Acute toxicity - dermal Skin irritation - human Skin irritation - human Hoderate eye irritation Moderate eye irritation Moderate eye irritation No data available Carcinogenicity - rat - subcutaneous Carcinogenici |                                 |                                                                             |
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| exposure Specific target organ toxicity - repeated exposure Additional information Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - intapapritional - x a boom or intapapr |                                 |                                                                             |
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| exposure Additional information Aspiration hazard Additional information Aspiration hazard Additional information Acute toxicity No data available Acute toxicity - dermal Skin irritation Skin irritation Skin irritation Skin irritation Aspiratory or skin sensitization No data available Acute toxicity - rat - subcutaneous Additional information Acute toxicity - rat - subcutaneous Acute toxicity - repeated Additional information Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male and female rabit Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - intraperitoneal - rat Acute toxicity - LD50 - intraperitoneal - rat Acute toxicity - LD50 - intraperitoneal - rat Acute toxicit |                                 | No data available                                                           |
| Aspiration hazard Additional information Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect level - 25 mg/kg RTECS: KL297500 Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Additional information Liver - Irregularities - Based on Human Evidence Iron Oxide(1309-37-1) Acute toxicity - dermal No data available Skin irritation - human Skin irritation - human Respiratory or skin sensitization Respiratory Respirato |                                 |                                                                             |
| Additional information Repeated dose toxicity - rat - male and female - oral Lowest observed adverse effect Level - 25 ma/kg RTECS: KL29500  Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information Liver - Irregularities - Based on Human Evidence  Iron Oxide(1309-37-1)  Acute toxicity - dermal Skin irritation - Skin irritation - human Skin irritation - human Skin irritation - human Skin irritation - human Moderate eye irritation - human Moderate eye irritation - human Sepiratory or skin sensitization Moderate eye irritation Respiratory or skin sensitization No data available  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - rat - subcutaneous equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity - according to a consponent of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated 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 NTP |                                 | No data available                                                           |
| adverse effect level - 25 mg/kg RTECS: Kl.297500 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated  Additional information Liver - Irregularities - Based on Human Evidence Liver - Loxicity No data available Acute toxicity - dermal No data available Skin irritation - human Skin irritation Respiratory or skin sensitization Respiratory Reproductive to contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.  TARC 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 kown or anticpated 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 Reproductive toxicity - repeated exposure to iron (oxide fume or dust) can cause sidensis. Sidensis 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LDSO - oral - male and female rat Acute toxicity - LDSO - dermal - male and  |                                 |                                                                             |
| Additional information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | adverse effect level - 25 mg/kg RTECS: KL297500                             |
| Additional information Liver - Irregularities - Based on Human Evidence  Iron Oxide(1309-37-1) Acute toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Additional information          | To the best of our knowledge, the chemical, physical, and toxicological     |
| Additional information   Liver - Irregularities - Based on Human Evidence   Iron Oxide(1309-37-1) Acute toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                                                             |
| Acute toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Additional information          |                                                                             |
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| Skin irritation - human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                                             |
| Moderate eye irritation   Moderate eye irritation   Respiratory or skin sensitization   No data available   Germ cell mutagenicity   No data available   Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.   Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.   This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.   Group 3: not classifiable as to its carcinogenicity to humans (diiron trioxide).   No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.   No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by OSHA.   Reproductive toxicity   No data available   Inhalation - may cause respiratory irritation.   No data available   Inhalation - may cause respiratory irritation.   No data available   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.   P. 195 mg/l / 4h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                             |
| Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity - rat - subcutaneous Garcinogenicity - rat - subcutaneous Garcinogenicity - rat - subcutaneous Garcinogenicity Carcinogenicity 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.  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 kown or anticpated carcinogen by NTP.  OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.  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 Specific target organ toxicity - single exposure  Respicate organ toxicity - repeated exposure  Aspiration hazard No data available  No data available 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - dermal - male and female rat both control or rabbit No skin irritation - 24 h  Skin corrosion - rabbit No skin irritation - 24 h  Respiratory or skin sesnsitization - guinea pig Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                   |                                 |                                                                             |
| Germ cell mutagenicity Carcinogenicity - rat - subcutaneous Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.  Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity based on its LARC, ACGIH, NTP or EPA classification.  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 kown or anticpated 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  Specific target organ toxicity - repeated exposure  Aspiration hazard Additional information No data available 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.  Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - dermal - male and female rabbit Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit No skin irritation - 24 h No seye irritation Does not cause skin sensitization  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                                             |
| Equivocal tumorogenic agent by RTECS criteria. Tumors at site of application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                             |
| Application.  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.  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 kown or anticpated carcinogen by NTP.  OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.  Reproductive toxicity  No data available  Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure  Application hazard  Additional information  No data available  No data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male ard  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  No eye irritation - 24 h  No eye irritation  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |                                                                             |
| 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.  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 kown or anticpated carcinogen by NTP.  OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.  Reproductive toxicity  No data available  Specific target organ toxicity - repeated exposure  Specific target organ toxicity - repeated exposure  Additional information  No data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LD50 - inhalation - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  No sye irritation  No eye irritation  Does not cause skin sensitization  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Caremogerially rat Subcataneous |                                                                             |
| carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.  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 kown or anticpated carcinogen by NTP.  OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.  No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.  Reproductive toxicity No data available exposure Specific target organ toxicity - repeated exposure Aspiration hazard No data available Additional information No data available 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.  Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - inhalation - male and female rabbit Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit No eye irritation - 24 h No eye irritation Does not cause skin sensitization pig Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Carcinogenicity                 |                                                                             |
| IARC    Scoup 3: not classifiable as to its carcinogenicity to humans (diiron trioxide).   NTP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Caremogernaty                   |                                                                             |
| trioxide).  NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.  OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.  Reproductive toxicity  No data available  Specific target organ toxicity - single exposure  Aspiration hazard  Additional information  No data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LD50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rat  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  No eye irritation - 24 h  No eye irritation  Does not cause skin sensitization  pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TARC                            |                                                                             |
| No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.  No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP.  No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.  Reproductive toxicity  Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure  Specific target organ toxicity - repeated exposure  Specific target organ toxicity - repeated exposure  No data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  No skin irritation - 24 h  Eye irritation - rabbit  No eye irritation  Does not cause skin sensitization  Does not cause skin sensitization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                             |
| OSHA OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a kown or anticpated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as ca carcinogen or potential carcinogen by OSHA.  Reproductive toxicity No data available Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard No data available 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.  Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - dermal - male and female rat Acute toxicity - LD50 - intraperitoneal - rat Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit No skin irritation - 24 h Eye irritation - rabbit Respiratory or skin sesnsitization - guinea pig Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NTP                             |                                                                             |
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| Reproductive toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OSHA                            | No component of this product present at levels greater than or equal to     |
| Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information Additional information  Respiratory irritation 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.  Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - oral - male rat Acute toxicity - LC50 - inahalation - male and female rat Acute toxicity - LD50 - dermal - male and female rat Acute toxicity - LD50 - dermal - male and female rabbit Acute toxicity - LD50 - intraperitoneal - rat 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  > 5000 mg/kg  > 1.95 mg/l / 4h  > 3160 mg/kg  Skin corrosion - rabbit No skin irritation - 24 h No eye irritation  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |                                                                             |
| Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure  Aspiration hazard  Additional information  Additional information  Mo data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LD50 - inhalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rat  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  No data available  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  > 1.95 mg/l / 4h  > 1.95 mg/l / 4h  > 1.95 mg/l / 4h  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization                                                                                                                                                                                                                                           | Reproductive toxicity           |                                                                             |
| Exposure  Specific target organ toxicity - repeated exposure  Aspiration hazard  Additional information  Additional information  Specific target organ toxicity - repeated exposure  Aspiration hazard  Additional information  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  > 1000 mg/kg  Skin corrosion - rabbit  No skin irritation - 24 h  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                                             |
| Specific target organ toxicity - repeated exposure  Aspiration hazard  Additional information  Additional information  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Acute toxicity - LD50 - intraperitoneal - rat  Sign or or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  No adta available  No data available  No exiderosis is considered to be a benign pneumoconiosis and does not normally cause sighrosis en considered to be a benign pneumoconiosis and does not normally cause sighrosis is considered to be a benign pneumoconiosis and does not normally cause siderosis is considered to be a benign pneumoconiosis and does not normal cause siderosis is considered to be a benign pneumoconiosis and considered to be a benign pneumoconiosis and couse siderosis is considered to be a benign pneumoconiosis and couse siderosis is considered to be a benign pneumoconiosis and does not normal end possible fund pneumoconiosis and does not normal end possible fund pneumoconiosis and does not normal end possible fund pneumoconiosis and does not normal end pneumoconiosis and does not normal end possible fund pneumoconiosis and does | , , , ,                         | , , ,                                                                       |
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| Aspiration hazard  Additional information  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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  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, physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance., To the best of our knowledge, the chemical, physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance., To the best of our knowledge, the chemical, physiological properties have not been thoroughly investigated.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  > 5000 mg/kg  > 1.95 mg/l / 4h  > 1.95 mg/l / 4h  No skin irritation - 24 h  No eye irritation - 24 h  No eye irritation  Poes not cause skin sensitization  Does not cause skin sensitization  Fermional cause skin sensitization  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - intraperitoneal - rat  Siderosis is considered to be a benign pneumoconiosis and does not normal physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance. To the observed on x-rays with the lungs having a mottled appearance. To the observed on x-rays with the lungs having a mottled appearance. To the obser | , , , , ,                       |                                                                             |
| 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  > 1000 mg/kg  Skin corrosion - rabbit  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | No data available                                                           |
| 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                                             |
| 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.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 | siderosis. Siderosis is considered to be a benign pneumoconiosis and does   |
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| have not been thoroughly investigated.  Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | observed on x-rays with the lungs having a mottled appearance., To the      |
| Pentaerythritol tetrakis(6683-19-8)  Acute toxicity - LD50 - oral - male rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 | best of our knowledge, the chemical, physical, and toxicological properties |
| Acute toxicity - LD50 - oral - male rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | have not been thoroughly investigated.                                      |
| Acute toxicity - LC50 - inahalation - male and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                                                                             |
| and female rat  Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                             |
| Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg  Skin corrosion - rabbit No skin irritation - 24 h  Eye irritation - rabbit No eye irritation  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 | > 1.95 mg/l / 4h                                                            |
| female rabbit  Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg  Skin corrosion - rabbit No skin irritation - 24 h  Eye irritation - rabbit No eye irritation  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                             |
| Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg  Skin corrosion - rabbit No skin irritation - 24 h  Eye irritation - rabbit No eye irritation  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | > 3160 mg/kg                                                                |
| Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Does not cause skin sensitization  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                                                             |
| Eye irritation - rabbit No eye irritation  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                             |
| Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.  Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |                                                                             |
| pig Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                                                             |
| Germ cell mutagenicity - Ames test - S. Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 | Does not cause skin sensitization                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                                                             |
| typhimurium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | Negative                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | typhimurium typhimurium         |                                                                             |



| Mutagenicity - micronucleus test - male            | Negative                                                                  |
|----------------------------------------------------|---------------------------------------------------------------------------|
| and female hamster                                 | 3                                                                         |
| IARC carcinogenicity                               | No component of this product present at levels greater than or equal to   |
| in the care and german,                            | 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   |
| ACOIT                                              | 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   |
| NIP                                                |                                                                           |
| 0.0114                                             | 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                                                         |
| Titanium Dioxide(13463-67-7)                       |                                                                           |
| Acute toxicity - LD50 - oral - rat                 | > 10000 mg/kg                                                             |
| Acute toxicity - inhalation                        | No data available                                                         |
| Acute toxicity - LD50 - dermal - rabbit            | > 10000 mg/kg                                                             |
| Skin irritation - human                            | Mild skin irritation - 3 h                                                |
| Eye irritation - rabbit                            | No eye irritation                                                         |
| Description or alia constitution                   |                                                                           |
| 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   |
| 0311/1                                             | 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                                                         |
|                                                    | No data available                                                         |
| exposure Specific target organ toxicity - repeated | No data available                                                         |
|                                                    | No data available                                                         |
| exposure                                           |                                                                           |
| Aspiration hazard                                  | No data available                                                         |
| Additional information                             | To the best of our knowledge, the chemical, physical, and toxicological   |
|                                                    | properties have not been thoroughly investigated                          |
| Tris(2,4-ditert-butylphenyl) phosphite(31570       | 0-04-4)                                                                   |
| LD50 - oral - male and female rat - Acute          | > 6000 mg/kg                                                              |
| Toxicity                                           |                                                                           |
| LD50 - dermal - male and female rat                | > 2000 mg/kg                                                              |
| Skin irritation - rabbit                           | No skin irritation / 24 h                                                 |
| Eye irritation- rabbit                             | No eve irritation / 30 s                                                  |
| Respiratory or skin sensitization - guinea         | Does not cause skin sensitization                                         |
| pig                                                | DOCS HOL CAUSE SKIII SCHSIUZUUOH                                          |
| Germ cell mutagenicity -Ames test                  | Negative                                                                  |
|                                                    | Negative                                                                  |
| (micronucleus test) - male and femae               |                                                                           |
| hamster                                            | NId                                                                       |
| 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           |

# 12. ECOLOGICAL INFORMATION

| 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                                                                                 |
| reisisitefice and degradability                     | 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 Silica(112926-00-8)                       | no dete contlete                                                                                                                                   |
| 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          | 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                                                                                                                                  |
| Bioaccumulative potential                           | No data available                                                                                                                                  |
| Mobility in soil                                    | No data available                                                                                                                                  |
| PBT and vPvB assessment                             | Not available/not required                                                                                                                         |
| Diethanolamine(111-42-2)                            |                                                                                                                                                    |
| Toxicity to fish                                    | LC50 - Pimephales promelas (fathead minnow) - 1,460 mg/l - 96h                                                                                     |
| Toxicity to daphnia and other aquatic invertebrates | static test EC50 - Daphnia magna (Water Flea) - 30.1 mg/l - 48h                                                                                    |
| Persistence and degradability                       | Biodegradability - aerobic - Exposure time 28d - Result: 93% Readily biodegradable ( OECD Test Guideline 301F)                                     |
| Bioaccumulative potential                           | No data available                                                                                                                                  |
| Mobility in Soil                                    | No data available                                                                                                                                  |
| Results of PBT and vPvB assessment                  | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted                                                         |
| Other adverse effects                               | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lastting effects |
| Iron Oxide(1309-37-1)                               |                                                                                                                                                    |
| Toxicity                                            | No data available                                                                                                                                  |
| Persisitence and degradability                      | No data available                                                                                                                                  |
| Bioaccumulative potential                           | No data available                                                                                                                                  |
| Mobility in soil                                    | No data available                                                                                                                                  |
| PBT and vPvB                                        | Not available/not required                                                                                                                         |
| Other adverse effects                               | No data available                                                                                                                                  |
| Pentaerythritol tetrakis(6683-19-8)                 | 110 data available                                                                                                                                 |
| remade yumitor tetrakis(0003-13-0)                  |                                                                                                                                                    |



| 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 -         |                                                 |
| daphnia magna (water flea)                    |                                                 |
| Toxicity to algae - static EC50 -             | > 100 mg/L / 72 h                               |
| Scenedesmus subspicatus                       | 400 (1.40)                                      |
| 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           |                                                 |
| (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  |                                                 |
| 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                      |

# 13. DISPOSAL CONSIDERATIONS

# **WASTE TREATMENT METHODS**

**GENERAL INFORMATION:** No data available.

**DISPOSAL METHOD:** Dispose of in accordance with Local, State, Regional, National and International Regulations.

Ecology - waste materials: Avoid release to the environment.

# 14. TRANSPORT INFORMATION

# \*CHECK WITH YOUR CARRIER FOR ADDITIONAL RESTRICTIONS THAT MAY APPLY.

**USDOT GROUND** 

**DOT (DEPARTMENT OF TRANSPORTATION)** 

PROPER SHIPPING NAME (DOT): Not Regulated/Not Applicable

**HAZARDS CLASS:** None

UN/NA NUMBER: Not Applicable

**PACKING GROUP:** None

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Not Regulated/Not Applicable

**HAZARDS CLASS:** Not Applicable UN/NA NUMBER: Not Applicable **PACKING GROUP:** Not Applicable

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IMDG (OCEAN)

PROPER SHIPPING NAME: Not Regulated, Not Applicable

**HAZARDS CLASS:** Not Applicable UN/NA NUMBER: Not Applicable PACKING GROUP: Not Applicable

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

**MARINE POLLUTANT:** No

SPECIAL PRECAUTIONS: P235 Keep cool.



# **SAFETY DATA SHEET**

**ISSUED:** 8/21/2018 **REFERENCE:** WH492-C209

# 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    |
| 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):

Carc. 2 H351 Suspected of causing cancer

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure

# **NATIONAL REGULATIONS**

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

# National Regulations Key

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

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



# ARDINAL SAFETY DATA SHEET

**ISSUED:** 8/21/2018 REFERENCE: WH492-C209

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

| This product contains: | Chemical CAS# |
|------------------------|---------------|
| *Titanium Dioxide      | 13463-67-7    |
| *Diethanolamine        | 111-42-2      |
| *Carbon Black          | 1333-86-4     |

# **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     |
| Amorphous Silica      | 112926-00-8   |
| Diethanolamine        | 111-42-2      |
| Carbon Black          | 1333-86-4     |
| Iron Oxide            | 1309-37-1     |

# Pennsylvania Right to Know

| This product contains                  | Chemical CAS# |
|----------------------------------------|---------------|
| Titanium Dioxide                       | 13463-67-7    |
| Barium Sulfate                         | 7727-43-7     |
| Aluminum Oxide                         | 1344-28-1     |
| Amorphous Silica                       | 112926-00-8   |
| Pentaerythritol tetrakis               | 6683-19-8     |
| Tris(2,4-ditert-butylphenyl) phosphite | 31570-04-4    |
| Diethanolamine                         | 111-42-2      |
| Carbon Black                           | 1333-86-4     |
| Iron Oxide                             | 1309-37-1     |



# New Jersey Right to Know

| This product contains                  | Chemical CAS# |
|----------------------------------------|---------------|
| Titanium Dioxide                       | 13463-67-7    |
| Barium Sulfate                         | 7727-43-7     |
| Aluminum Oxide                         | 1344-28-1     |
| Amorphous Silica                       | 112926-00-8   |
| Pentaerythritol tetrakis               | 6683-19-8     |
| Tris(2,4-ditert-butylphenyl) phosphite | 31570-04-4    |
| Diethanolamine                         | 111-42-2      |
| Carbon Black                           | 1333-86-4     |
| Iron Oxide                             | 1309-37-1     |



# RDINAL SAFETY DATA SHEET

**ISSUED:** 8/21/2018 **REFERENCE:** WH492-C209

### **16. OTHER INFORMATION**

# **Other Product Information:**

% Volatile by Volume: 0.03 % Volatile by Weight: 0.02 % Solids by volume: 99.97 % Solids by Weight: 99.98

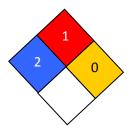
# **VOC CONTENT:**

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

# **HMIS RATING**

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

# NFPA CODES



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