

**RDINAL** SAFETY DATA SHEET

# C031-WH120 WHITE

### **1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME:	C031-WH120 WHITE
PRODUCT USE:	Industrial Powder Coating

### MANUFACTURER

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

### 24 HR. EMERGENCY TELEPHONE NUMBER

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

### 2. HAZARDS IDENTIFICATION

### **PICTOGRAMS**:



### **SIGNAL WORD :** WARNING

### **HAZARD STATEMENTS :**

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

### **PRECAUTIONARY STATEMENTS :**

P201 Obtain special instructions before use.

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

- P260 Do not breathe dust.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Titanium Dioxide	35% - 40%	13463-67-7
Hydrated magnesium silicate	1% - 5%	14807-96-6

### 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** 



**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

Amorphous Pyrogenic Silica(112945-52-5	5)		
USA OSHA	USA OSHA TWA (OEL Table Z-3)	80 mg/m3 3/%SiO2	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
Amorphous Silica(112926-00-8)			
USA OSHA	USA OSHA TWA (Table Z-1)	6 mg/m3	
USA OSHA	USA OSHA TWA (Tabla Z-3)	20 Million particals per cubic foot.	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
Crystalline Silica(14808-60-7)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.025 mg/m3 8 hours	
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)			
NIOSH REL (Recommended Exposure	TWA (Time Weighted Average)	3 ppm 8 hours	
Limit)			
Hydrated magnesium silicate(14807-96-6)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	2 mg/m3 (Respirable Fraction) 8	
		hours	
NIOSH REL(Recommended Exposure	TWA (Time Weighted Average)	2 mg/m3 (Respirable Fraction) 10	
Limit)		hours	
Titanium Dioxide(13463-67-7)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	10 mg/m3 8 hours	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 8 hours	

### PERSONAL PROTECTIVE EQUIPMENT

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

HAND PROTECTION : Wear protective gloves.

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

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

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Melting point	:	55 - 90 deg C
Flash point	:	No data available.
Lower explosion limit	:	10 g/m <sup>3</sup>
Upper explosion limit	:	70 g/m <sup>3</sup>
Density	:	1.6968
Solubility	:	No data available.
Autoignition temperature	:	No data available.
Decomposition temperature	:	No data available.

# **10. STABILITY AND REACTIVITY**

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

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

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

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

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



### **11. TOXICOLOGICAL INFORMATION**

Amorphous Pyrogenic Silica(112945-52-5) Acute toxicity - Inhalation	No data available
Acute toxicity - Dermal	No data available
Skin irritation	No data available
Respiratory or skin sensation	No data available
Germ cell mutagenicity - rat - lungs	Body fluid assay
Germ cell mutagenicity - rat	Unscheduled DNA synthesis
Carcinogenicity - Rat - Inhalation	
	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors
IARC	Not classifiable as to its carcinogenicity to human
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as as known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is 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 exposure	No data available
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Additional information	Stomach irregularities based on human evidence
Amorphous Silica(112926-00-8)	
Acute toxicity	no data available
Acute toxicity: Inhalation	no data available
Acute toxicity: Dermal	no data available
Skin irritation	no data available
Eye irritation	no data available
Respiratory or skin sensation	no data available
Germ cell mutagenicity	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	no data available
exposure	
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
Additional information	Amorphous silica is not classified as to its carcinogenicity to humans,
	however, crystalline silica inhaled in the form of quartz or cristobalite fro 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
Crystalline Silica(14808-60-7)	
Acute Inhalation toxicity	no data available
Acute Dermal toxicity	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	Limited evidence of carcinogenicity in human studies

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 REFERENCE:
 WH120-C031

ACGIH	No component of this product present at levels greater than or equal to
NED	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	Known to be human carcinogen (Quartz)
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	no data available
Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure - inhalation	may cause damage to organs through prolonged or repeated exposure
Aspiration hazard	no data available
Additional information	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stage, loss of appetite, pleuric pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP., The chronic health risks are associated with respirable particles of 3-4 um over protracted periods of time. Currently, there is a limited understanding of the mechanisms of quartz toxicity, including its mechanisms for lung carcinogenicity. Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential.
Additional information	Liver - Irregularities - based on human evidence
Diethanolamine(111-42-2)	
LD50 Oral - Rat - male and female	1,600 mg/kg (OECD Test Guideline 401)
LD50 Dermal - Rabbit	12,200 mg/kg
LD50 Intraperitoneal - Rat	120 mg/kg
LD50 Intravenous - Rat	778 mg/kg
Skin Corrosion/irritation	No data available
Serious eye damage/eye irritation	Rabbit - Risk of serious damage to eyes (OECD Test Guideline 405)
Respiratory or skin sensitization	Guinea pig - Did not cause sensitization on laboratory animals
Germ cell mutagenicity	Micronucleus test lymphocyte - Result Negative
Mutagenicity (micronucleus test) Mouse male and female	Result: Negative
Carcinogenicity - IARC	2B - Group 2B Possibly carcinogenic to humans
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
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 OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional information	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
Hydrated magnesium silicate(14807-96-6)	
Acute toxicity - inhalation	No data available
Acute toxicity - dermal	No data available
Skin irritation - human	Mild skin irritation 3 h
Eye irritation	No data available
Respiratory or skin sensitisation	No ata available
Germ cell mutagenicity Carcinogenicity - rat - inhalation	No data available           Equivocal tumorigenic agent by RTECS criteria. Lungs, thorax, or
	respiration: Tumors
IARC	Group 3: Not classifiable as to its carcinogenicity to humans
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

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Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	properties have not been thoroughly investigated
Additional information	Stomach irregularities based on human evidence
Pentaerythritol tetrakis(6683-19-8)	
Acute toxicity - LD50 - oral - male rat	> 5000 mg/kg
Acute toxicity - LC50 - inahalation - male	> 1.95 mg/l / 4h
and female rat	
Acute toxicity - LD50 - dermal - male and	> 3160 mg/kg
female rabbit	
Acute toxicity - LD50 - intraperitoneal - rat	> 1000 mg/kg
Skin corrosion - rabbit	No skin irritation - 24 h
Eye irritation - rabbit	No eve irritation
Respiratory or skin sesnsitization - guinea	
	Does not cause skin sensitization
pig	
Germ cell mutagenicity - Ames test - S.	Negative
typhimurium	
Mutagenicity - micronucleus test - male	Negative
and female hamster	
IARC carcinogenicity	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible, or confirmed human carcinogen
	by IARC
ACGIH	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to
USHA	
	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
Respiration or skin sensitisation	Will not occur
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary -	
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test	Will not occur No results available
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs	Will not occur No results available DNA inhibition
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary -	Will not occur No results available
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs	Will not occur         No results available         DNA inhibition         No results available
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary -	Will not occur No results available DNA inhibition
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange	Will not occur         No results available         DNA inhibition         No results available
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse - micronucleus test	Will not occur         No results available         DNA inhibition         No results available         No results available
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse -	Will not occur         No results available         DNA inhibition         No results available         No results available         No component of this product present at levels greater than or equal to
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse - micronucleus test	Will not occur         No results available         DNA inhibition         No results available         No results available         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
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse - micronucleus test IARC	Will not occur         No results available         DNA inhibition         No results available         No results available         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
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse - micronucleus test	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
Respiration or skin sensitisation Germ cell mutagenicity - hamster - ovary - micronucleus test Germ cell mutagenicity - hamster - lungs Germ cell mutagenicity - hamster - ovary - sister chromatid exchange Germ cell mutagenicity - mouse - micronucleus test IARC	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA         Reproductive toxicity	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA         Reproductive toxicity         Specific target organ toxicity - single         exposure	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA         Reproductive toxicity         Specific target organ toxicity - single         exposure	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA         Reproductive toxicity         Specific target organ toxicity - single         exposure         Specific target organ toxicity - repeated	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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         No data available
Respiration or skin sensitisation         Germ cell mutagenicity - hamster - ovary -         micronucleus test         Germ cell mutagenicity - hamster - lungs         Germ cell mutagenicity - hamster - ovary -         sister chromatid exchange         Germ cell mutagenicity - mouse -         micronucleus test         IARC         NTP         OSHA         Reproductive toxicity         Specific target organ toxicity - single         exposure	Will not occur         No results available         DNA inhibition         No results available         No results available         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         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen         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         No data available



**ISSUED:** 8/20/2018 **REFERENCE:** WH120-C031

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	
LD50 - oral - male and female rat - Acute	> 6000 mg/kg
Toxicity	> 0000 mg/kg
LD50 - dermal - male and female rat	> 2000 mg/kg
Skin irritation - rabbit	No skin irritation / 24 h
Eye irritation- rabbit	No eye irritation / 30 s
Respiratory or skin sensitization - guinea	Does not cause skin sensitization
piq	
Germ cell mutagenicity -Ames test	Negative
(micronucleus test) - male and femae	
hamster	
Carcinogenicity - oral - male and female	No adverse effect has been observed in chronic toxicity tests
rat	
IARC	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible, or confirmed human carcinogen
	by IARC
ACGIH	No component of this product present at levels greater than or equal to
NTO	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
OSHA	0.1% is identified as a known or anticipated carcinogen No component of this product present at levels greater than or equal to
USHA	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**

Amorphous Pyrogenic Silica(112945-52-5)	
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Amorphous Silica(112926-00-8)	
Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Crystalline Silica(14808-60-7)	
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
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



**ISSUED:** 8/20/2018 **REFERENCE:** WH120-C031

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
Hydrated magnesium silicate(14807-96-6)	
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
Pentaerythritol tetrakis(6683-19-8)	
Toxicity to fish - static LC50 - zebra fish	> 100 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 86 mg/L / 24 h
invertebrates - immobilization EC50 -	
daphnia magna (water flea)	
Toxicity to algae - static EC50 -	> 100 mg/L / 72 h
Scenedesmus subspicatus	
Toxicity to bacteria - respiration inhibition IC50 - sludge treatment	> 100 mg/L / 3 h
Persistence and degradability -	5% - not biodegradable : exposure time - 28 d
biodegradability - aerobic	5 1
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 - EC0 - Daphnia magna	
(water flea)	
Persistence and degradability	No data available
Bioaccumulative potential Mobility in soil	No data available
PBT and vPbV	No data available Not available/not required
Other adverse effects	Not available/not required
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	510 mg/c / 24 m
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

### **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
Hydrated magnesium silicate	14807-96-6

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

 $\sim$  Indicates a chemical listed by IARC as a possible carcinogen.

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



### STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*Titanium Dioxide	13463-67-7
*Hydrated magnesium silicate	14807-96-6
*Crystalline Silica	14808-60-7
*Diethanolamine	111-42-2

### **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 <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 cancer and birth defects or other reproductive harm. For more information visit WWWPROP65.CA.GOV.

### Massachusetts Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
Amorphous Silica	112926-00-8
Crystalline Silica	14808-60-7
Diethanolamine	111-42-2

### Pennsylvania Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
Pentaerythritol tetrakis	6683-19-8
Amorphous Silica	112926-00-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Crystalline Silica	14808-60-7
Diethanolamine	111-42-2
Amorphous Pyrogenic Silica	112945-52-5



### New Jersey Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Hydrated magnesium silicate	14807-96-6
Pentaerythritol tetrakis	6683-19-8
Amorphous Silica	112926-00-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Crystalline Silica	14808-60-7
Diethanolamine	111-42-2
Amorphous Pyrogenic Silica	112945-52-5



**RDINAL** SAFETY DATA SHEET

# **16. OTHER INFORMATION**

# **Other Product Information:**

% Volatile by Volume :	0.02
% Solids by volume :	99.98

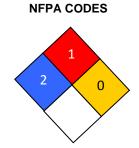
% Volatile by Weight :	0.01
% Solids by Weight :	99.99

# **VOC CONTENT:**

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

### HMIS RATING

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



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