

T002-WH08 WHITE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T002-WH08 WHITE

PRODUCT USE: Industrial Powder Coating

MANUFACTURER 24 HR. EMERGENCY TELEPHONE NUMBER

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

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

2. HAZARDS IDENTIFICATION

PICTOGRAMS:



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

H340 May cause genetic defects.

H351 Suspected of causing cancer.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P260 Do not breathe dust.

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Titanium Dioxide	25% - 30%	13463-67-7
1,3,5-Triglycidyl Isocyanurate	1% - 5%	2451-62-9
Silicon Dioxide	1% - 5%	7631-86-9

4. FIRST AID MEASURES

Description of first aid measures.

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



SAFETY DATA SHEET

ISSUED: 8/21/2018 REFERENCE: WH08-T002

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

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

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

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

5. FIRE FIGHTING MEASURES

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

UNSUITABLE EXTINGUISHING MEDIA: Do not use heavy water stream.

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

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

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

6. ACCIDENTAL RELEASE MEASURES

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

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

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

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

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

7. HANDLING AND STORAGE

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

Hygiene measures: Wash Skin thoroughly after handling.

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

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.



8. EXPOSURE CONTROLS\PERSONAL PROTECTION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours	
2-Mercaptobenzothiazole(149-30-4)			
USA WEEL	(WEEL) TWA	5 mg/m3	
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	
Limestone(1317-65-3)			
ACGIH	Not Applicable	Not Applicable	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hours	
OSHA PEL (Permissible Exposure Limit	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8 hours	
NIOSH REL (Recommende Exposure	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hour	
LImit)			
NIOSH REL (Recommende Exposure	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
LImit)		hours	
Silicon Dioxide(7631-86-9)			
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
USA OSHA	USA OSHA TWA (Table Z-3)	20 mppcf	
Titanium Dioxide(13463-67-7)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	10 mg/m3 8 hours	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 8 hours	

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear approved dust mask.

HAND PROTECTION: Wear protective gloves.

EYE PROTECTION: Chemical goggles or safety glasses.

SKIN AND BODY PROTECTION: Wear suitable protective clothing.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Melting point	:	55 - 90 deg C
Flash point	:	No data available.
Lower explosion limit	:	10 g/m ³
Upper explosion limit	:	70 g/m³
Density	:	1.5926
Solubility	:	No data available.
Autoignition temperature	:	No data available.
Decomposition temperature	:	No data available.

10. STABILITY AND REACTIVITY

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

CHEMICAL STABILITY: Stable under normal conditions.

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

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents.

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



11. TOXICOLOGICAL INFORMATION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)	
Acute toxicity - LD50 - oral - rat	100 - 200 mg/kg
Acute toxicity - LC50 - inhalation - rat -	> 650 mg/m3
male - 4 h	
Acute toxicity - LD50 - Dermal - rat- male	> 2000 mg/kg
& female	
Skin irritation - rabbit	Mild skin irritation - 24 hours
Eye irritation - rabbit	Severe eye irritation
Respiratory or skin sensation -	May cause sensitization by skin contact
Maximization test - guinea pig	
Germ cell mutagenicity	In vivo tests showed mutagenic effects
Germ cell mutagenicity - AMES test - S. typhimurium	Positive
Germ cell mutagenicity - AMES test - mouse - male	Positive
IARC	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
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
Specific target organ toxicity - repeated	No data available
exposure	No data available
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
Additional Information	properties have not been thoroughly investigated
2-Mercaptobenzothiazole(149-30-4)	proportion in the contract of
Acute toxicity - LD50 - oral - male and	3800 mg/kg
femal rat	
Acute toxicity - LC50 - inhalation - rat	> 1270 mg/m3
Acute toxicity - LD50 - dermal - male and	> 7940 mg/kg
female rabbit Skin irritation - rabbit	No dein irritation / 24 h
Eye irritation - rabbit	No skin irritation / 24 h No eye irritation / 24 h
Respiratory or skin sensitisation - Buehler	May cause allergic skin reaction
test - guinea pig	Thay cause unergic skill reaction
Respiratory or skin sensitisation -	May cause allergic skin reaction
Maximisation test - guinea pig	, g
Germ cell mutagenicity - Ames test - S.	Negative
typhimurium	
Germ cell mutagenicity - male and female	Negative
mouse	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen
	by IARC
ACGIH	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	and draining
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available



Additional information	Repeated dose toxicity - male and female rat - lowest observed adverse effect level - 2500 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Amorphous Silica(112926-00-8)	3 / 3
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: ACGIH	not classifiable as to its carcinogenicity to humans
	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	no data available
exposure	
Aspiration hazard	no data available
Additional information	Amorphous silica is not classified as to its carcinogenicity to humans,
	however, crystalline silica inhaled in the form of quartz or cristobalite from
	occupational sources is carcinogenic to humans (Group 1, IARC).
	Therefore, amorphous silica should be handled as if possessing the same
	hazards as the crystalline form. To the best of our knowledge, the
	chemical, physical, and toxicological properties have not been thoroughly
	investigated.
Additional information	Stomach - irregularities - based on human evidence
Crystalline Silica(14808-60-7)	-
Acute Inhalation toxicity	no data available
Acute Inhalation toxicity Acute Dermal toxicity	no data available no data available
Acute Dermal toxicity	no data available
Acute Dermal toxicity Skin irritation	no data available no data available
Acute Dermal toxicity Skin irritation eye irritation	no data available no data available no data available
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation	no data available no data available no data available no data available
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity	no data available
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity	no data available Limited evidence of carcinogenicity in human studies
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity IARC	no data available Limited evidence of carcinogenicity in human studies Group 1: Carcinogenic to humans (Quartz)
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Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity IARC ACGIH NTP OSHA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure - inhalation Aspiration hazard	no data available limited evidence of carcinogenicity in human studies Group 1: Carcinogenic to humans (Quartz) 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 Known to be human carcinogen (Quartz) 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 may cause damage to organs through prolonged or repeated exposure no data available 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,
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity IARC ACGIH NTP OSHA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure - inhalation Aspiration hazard	no data available Limited evidence of carcinogenicity in human studies Group 1: Carcinogenic to humans (Quartz) 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 Known to be human carcinogen (Quartz) 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 may cause damage to organs through prolonged or repeated exposure no data available 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,
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity IARC ACGIH NTP OSHA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure - inhalation Aspiration hazard	no data available Limited evidence of carcinogenicity in human studies Group 1: Carcinogenic to humans (Quartz) 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 Known to be human carcinogen (Quartz) 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 may cause damage to organs through prolonged or repeated exposure no data available 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
Acute Dermal toxicity Skin irritation eye irritation Respiratory or skin sensation Germ cell mutagenicity Carcinogenicity IARC ACGIH NTP OSHA Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure - inhalation Aspiration hazard	no data available Limited evidence of carcinogenicity in human studies Group 1: Carcinogenic to humans (Quartz) 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 Known to be human carcinogen (Quartz) 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 may cause damage to organs through prolonged or repeated exposure no data available 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,



Additional information	Liver - Irregularities - based on human evidence
Limestone(1317-65-3)	
Draize test, rabbit, eye	750 ug/24H severe
Draize test, rabbit, skin	500 mg/24H moderate
Oral, rat: LD50	6450 mg/kg
ACGIH, IARC, NTP, CA Prop 65	Not listed
Epidemiology	No information available
Teratogenicity	No information available
Reproductive effects	No information available
Mutagenicity	No information available
Neurotoxicity	No information available
Pentaerythritol tetrakis(6683-19-8)	
Acute toxicity - LD50 - oral - male rat	> 5000 mg/kg
Acute toxicity - LC50 - inahalation - male and female rat	> 1.95 mg/l / 4h
Acute toxicity - LD50 - dermal - male and	> 3160 mg/kg
female rabbit	1000
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	Does not cause skin sensitization
Germ cell mutagenicity - Ames test - S. typhimurium	Negative
Mutagenicity - micronucleus test - male and female hamster	Negative
IARC carcinogenicity	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Silicon Dioxide(7631-86-9)	The data drandste
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 sensitisation	No data available
Germ cell mutagenicity	No data available
IARC	Group 3: Not classifiable as to its carcinogenicity to humans (Silicon
	dioxide)
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	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Additional information Titanium Dioxide(13463-67-7)	Stomach irregularities based on human evidence (silicon dioxide)
Acute toxicity - LD50 - oral - rat	> 10000 mg/kg



Acute toxicity - inhalation	No data available
Acute toxicity - LD50 - dermal - rabbit	> 10000 mg/kg
Skin irritation - human	Mild skin irritation - 3 h
Eye irritation - rabbit	No eye irritation
Respiration or skin sensitisation	Will not occur
Germ cell mutagenicity - hamster - ovary -	No results available
micronucleus test	
Germ cell mutagenicity - hamster - lungs	DNA inhibition
Germ cell mutagenicity - hamster - ovary -	No results available
sister chromatid exchange	
Germ cell mutagenicity - mouse -	No results available
micronucleus test	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
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
Tris(2,4-ditert-butylphenyl) phosphite(3157)	
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 eye irritation / 30 s
Respiratory or skin sensitization - guinea pig	Does not cause skin sensitization
Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster	Negative
Carcinogenicity - oral - male and female rat	No adverse effect has been observed in chronic toxicity tests
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
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12. ECOLOGICAL INFORMATION

1.2.5 Trick cid (1.50 co. co. co. co. (2451, 62.0)	
1,3,5-Triglycidyl Isocyanurate(2451-62-9)	> 77 mg/l 06 h
Toxicity to fish - static test LC 50 - danio rerio (zebra fish)	> 77 mg/l - 96 h
Toxicity to daphnia and other aquatic	> 100 mg/l - 24 h
invertebrates - Immobilization - EC50 -	
daphnia magna (water flea)	
Toxicity to algae - growth inhibition - EC50 - Desmodesmus subspicatus	29 - 30 mg/l - 72 h
Toxicity to bacteria - Respiration inhibition	> 100 mg/l 3 h
- IC50 - Sludge Treatment	3
Persistence and degradability -	0.5 - 1% - not biodegradable
biodegradability - aerobic - exposure time:	, and the second
44 d	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT & vPvB	not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of
	unprofessional handling or disposal. Harmful to aquatic life with long
	lasting effects
2-Mercaptobenzothiazole(149-30-4)	
Toxicity to fish - flow-through test - LC50 -	0.73 mg/L / 96 h
rainbow trout	
Toxicity to daphnia and other aquatic	0.71 mg/L / 48 h
invertebrates - immobilization EC50 -	
Daphnia magna (water flea)	
Toxicity to algae - growth inhibition - EC50	0.5 mg/L - 72 h
- green algae	
Persistence and degradability -	1% - not readily biodegradable - exposure time: 28 d
biodegradability - biotic/aerobic	
Bioaccumulative potential -	0.1 mg/L / 42 d
bioaccumulation - carp Bioaccumulative potential -	< 0.8
Bioconcentration factor	< 0.0
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of
Other adverse effects	unprofessional handling or disposal. Very toxic to aquatic life with long
	lasting effects.
Amorphous Silica(112926-00-8)	lasting effects.
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 available/not required
Crystalline Silica(14808-60-7)	not available/not required
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 available/not required
Limestone (1317-65-3)	not available/not required
Ecotoxicity	No data available
Environmental	No information reported
Physical	No information available
Pentaerythritol tetrakis(6683-19-8)	no internation available
Toxicity to fish - static LC 50 - zebra fish	> 100 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 86 mg/L / 24 h
invertebrates - immobilization EC50 -	2 00 mg/E/ 2T II
daphnia magna (water flea)	
Toxicity to algae - static EC50 -	> 100 mg/L / 72 h
Scenedesmus subspicatus	·
Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
IC50 - sludge treatment	<i></i>



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 Silicon Dioxide(7631-86-9) Toxicity No data available Persistence and degradability No data available Mobility in soil No data available Mobility in soil No data available PBT and vPvP Not available/not required Titanium Dioxide(13463-67-7) Toxicity to fish - LC50 - other fish Toxicity to daphnia and other aquatic invertebrates - EC50 - Dapphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - EC0 - Daphnia magna (water flea) Persistence and degradability No data available Mobility in soil No data available PBT and vPbV No data available Mobility in soil No data available Mobility in soil No data available PBT and vPbV No data available No data available Tris(2,4-diterr-butylphenyl) phosphite(31570-04-4) Toxicity to daphnia and other aquatic invertebrates - static EC50 - zebra fish Toxicity to daphnia and other aquatic invertebrates - static EC50 - baphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to bacteria - respiration inhibition IC50 - sludge treatment Persistence and degradability - biodegradability - aerobic Bloaccumulative potential No data available No data available No data available		
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Mobility in soil No data available PBT and vPvB No data available/not required Other adverse effects No data available Silicon Dioxide(7631-86-9) Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available PBT and vPvP No data available PBT and vPvP No davailable/not required Titanium Dioxide(13463-67-7) Toxicity to fish - LC50 - other fish > 1000 mg/L / 96 h Toxicity to daphnia and other aquatic invertebrates - EC50 - Daphnia magna (water flea) Toxicity to daphnia and other aquatic invertebrates - EC O- 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 No data available Tris(2,4-ditert-butylphenyl) phosphite(31570-04-4) Toxicity to fish - static LC0 - zebra fish Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to bagae - static EC50 - > 75 mg/L / 72 h Scenedesmus subspicatus Toxicity to bacteria - respiration inhibition IC50 - sludge treatment Persistence and degradability - biodegradability - aerobic Bioaccumulative potential No data available No data available No data available		
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(water flea) Toxicity to daphnia and other aquatic invertebrates - ECO - Daphnia magna (water flea) Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPbV Not available Not available PBT and vPbV Not available/not required Other adverse effects Tris(2,4-ditert-butylphenyl) phosphite(31570-04-4) Toxicity to fish - static LCO - zebra fish Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to algae - static EC50 - Scenedesmus subspicatus Toxicity to bacteria - respiration inhibition IC50 - sludge treatment Persistence and degradability - biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available 1000 mg/L / 48 h No data available 1000 mg/L / 48 h No data available	Toxicity to daphnia and other aquatic	> 1000 mg/L / 48 h
(water flea) Toxicity to daphnia and other aquatic invertebrates - ECO - Daphnia magna (water flea) Persistence and degradability Bioaccumulative potential Mobility in soil PBT and vPbV Not available Not available PBT and vPbV Not available/not required Other adverse effects Tris(2,4-ditert-butylphenyl) phosphite(31570-04-4) Toxicity to fish - static LCO - zebra fish Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna Toxicity to algae - static EC50 - Scenedesmus subspicatus Toxicity to bacteria - respiration inhibition IC50 - sludge treatment Persistence and degradability - biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available 1000 mg/L / 48 h No data available 1000 mg/L / 48 h No data available	invertebrates - EC 50 - Dapphnia magna	5
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Toxicity to algae - static EC50 - Scenedesmus subspicatus Toxicity to bacteria - respiration inhibition IC50 - sludge treatment Persistence and degradability - 6% - not readily biodegradable - exposure: 28 d biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available No data available	magna	
Scenedesmus subspicatus Toxicity to bacteria - respiration inhibition	Toxicity to algae - static EC50 -	> 75 mg/L / 72 h
Toxicity to bacteria - respiration inhibition IC 50 - sludge treatment Persistence and degradability - biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available No data available	Scenedesmus subspicatus	3 , ,
IC 50 - sludge treatment Persistence and degradability - 6% - not readily biodegradable - exposure: 28 d biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available No data available	Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
Persistence and degradability - 6% - not readily biodegradable - exposure: 28 d biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available No data available		
biodegradability - aerobic Bioaccumulative potential Mobility in soil No data available No data available		6% - not readily biodegradable - exposure: 28 d
Bioaccumulative potential No data available Mobility in soil No data available		
Mobility in soil No data available		No data available
		No data available
		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.

SAFETY DATA SHEET

ISSUED: 8/21/2018 **REFERENCE:** WH08-T002

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.



RDINAL SAFETY DATA SHEET

ISSUED: 8/21/2018 REFERENCE: WH08-T002

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

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

OSHA HAZARDS: Moderate skin irritant, Moderate eye irritant.

EPCRA - Emergency

CERCLA REPORTABLE QUANTITY

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

This product contains:	Chemical CAS#
Titanium Dioxide	13463-67-7
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Silicon Dioxide	7631-86-9

SARA 313: No SARA 313 chemicals are present

CLEAN AIR ACT:

INTERNATIONAL REGULATIONS

CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP):

Eye Dam. 1 H318 Causes serious eye damage
Skin Sens. 1 H317 May cause an allergic skin reaction
Muta. 1B H340 May cause genetic defects
Carc. 2 H351 Suspected of causing cancer

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

NATIONAL REGULATIONS

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

National Regulations Key

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

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



SAFETY DATA SHEET

ISSUED: 8/21/2018 REFERENCE: WH08-T002

STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*Titanium Dioxide	13463-67-7
*2-Mercaptobenzothiazole	149-30-4
*Crystalline Silica	14808-60-7

Proposition 65 Key

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WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer.

For more information visit WWWPROP65.CA.GOV.

#

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause birth defects or other reproductive harm.

For more information visit WWWPROP65.CA.GOV.

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information visit WWWPROP65.CA.GOV.

Massachusetts Right to Know

This product contains	Chemical CAS#	
Titanium Dioxide	13463-67-7	
Limestone	1317-65-3	
Silicon Dioxide	7631-86-9	
Amorphous Silica	112926-00-8	
Crystalline Silica	14808-60-7	

Pennsylvania Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Limestone	1317-65-3
Silicon Dioxide	7631-86-9
Amorphous Silica	112926-00-8
Pentaerythritol tetrakis	6683-19-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4
Crystalline Silica	14808-60-7

New Jersey Right to Know

This product contains	Chemical CAS#
Titanium Dioxide	13463-67-7
Limestone	1317-65-3
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Silicon Dioxide	7631-86-9
Amorphous Silica	112926-00-8
Pentaerythritol tetrakis	6683-19-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4
Crystalline Silica	14808-60-7



16. OTHER INFORMATION

Other Product Information:

% Volatile by Volume: 0.05 % Volatile by Weight: 0.03 % Solids by Weight: % Solids by volume: 99.95 99.97

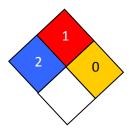
VOC CONTENT:

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

HMIS RATING

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

NFPA CODES



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