T241-RD129 TEXT RED

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T241-RD129 TEXT RED
PRODUCT USE: Industrial Powder Coating

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

24 HR. EMERGENCY TELEPHONE NUMBER
CHEMTREC (US Transportation): (800)424-9300
CHEMTREC (International Transportation): (202)483-7616
WEB: WWW.CARDINALPAINT.COM

2. HAZARDS IDENTIFICATION

PICTOGRAMS :

SIGNAL WORD : DANGER

HAZARD STATEMENTS :

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

PRECAUTIONARY STATEMENTS :

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
1,3,5-Triglycidyl Isocyanurate	5% - 10%	2451-62-9
Titanium Dioxide	0.50% - 0.99%	13463-67-7
Zinc 2-Mercaptobenzotriazole	1% - 5%	155-04-4
2-Mercaptobenzothiazole	1% - 5%	149-30-4
Aluminum Oxide	1% - 5%	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.

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

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

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

5. FIRE FIGHTING MEASURES

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

UNSUITABLE EXTINGUISHING MEDIA: Do not use heavy water stream.

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

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

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

6. ACCIDENTAL RELEASE MEASURES

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

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

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

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

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

7. HANDLING AND STORAGE

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

Hygiene measures: Wash Skin thoroughly after handling.

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

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.

8. EXPOSURE CONTROLS\PERSONAL PROTECTION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)		
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours
2-Mercaptobenzothiazole(149-30-4)		
USA WEEL	(WEEL) TWA	5 mg/m3
Aluminum Oxide(1344-28-1)		
USA ACGIH	(TLV) TWA	1 mg/m3
USA OSHA	(OEL) Table Z-1, TWA	15 mg/m3
Amorphous Pyrogenic Silica(112945-52-5)		
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3
USA OSHA	USA OSHA TWA (OEL Table Z-3)	80 mg/m3 3/%SiO2
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
Zinc 2-Mercaptobenzotriazole(155-04-4)		
ACGIH	Not Applicable	

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Wear approved dust mask.

HAND PROTECTION : Wear protective gloves.

EYE PROTECTION : Chemical goggles or safety glasses.

SKIN AND BODY PROTECTION : Wear suitable protective clothing.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	**:**	Solid
Melting point	**:**	55 - 90 deg C
Flash point	**:**	No data available.
Lower explosion limit	**:**	10 g/m^3
Upper explosion limit	**:**	70 g/m^3
Density	**:**	1.4808
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)	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity - LC50 - inhalation - rat - male - 4 h	> 650 mg/m3
Acute toxicity - LD50 - Dermal - rat- male & female	> 2000 mg/kg
Acute toxicity - LD50 - oral - rat	100 - 200 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Aspiration hazard	No data available
Eye irritation - rabbit	Severe eye irritation
Germ cell mutagenicity	In vivo tests showed mutagenic effects
Germ cell mutagenicity - AMES test - mouse - male	Positive
Germ cell mutagenicity - AMES test - S. typhimurium	Positive
IARC	No component of this product present at levels greater than or equal to 0.1%is identified as a probable, possible or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Respiratory or skin sensation - Maximization test - guinea pig	May cause sensitization by skin contact
Skin irritation - rabbit	Mild skin irritation - 24 hours
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
2-Mercaptobenzothiazole(149-30-4)	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity - LC50 - inhalation - rat	> 1270 mg/m3
Acute toxicity - LD50 - dermal - male and female rabbit	> 7940 mg/kg
Acute toxicity - LD50 - oral - male and femal rat	3800 mg/kg
Additional information	Repeated dose toxicity - male and female rat - lowest observed adverse effect level - 2500 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Aspiration hazard	No data available
Eye irritation - rabbit	No eye irritation / 24 h
Germ cell mutagenicity - Ames test - S. typhimurium	Negative
Germ cell mutagenicity - male and female mouse	Negative
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Respiratory or skin sensitisation - Buehler test - guinea pig	May cause allergic skin reaction
Respiratory or skin sensitisation - Maximisation test - guinea pig	May cause allergic skin reaction
Skin irritation - rabbit	No skin irritation / 24 h

Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
Aluminum Oxide(1344-28-1)	
Acute oral toxicity - LD50 - rat	> 5000 mg/kg
Acute toxicity - dermal	No data available
Acute toxicity - LC50 - inhalation - rat	> 2.6 mg/L / 4 h
Acute toxicity - LD50 - oral - rat	> 10,000 mg/kg
Additional information	Cough, chest pain, difficulty in breathing, gastrointestinal disturbance
Addittional information	Liver irregularities based on human evidence
Aspiration hazard	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
Eye irritation - rabbit	No eye irritation
Eye irritation - rabbit	Not irritating
Genotoxicity - in vitro - Ames test - Salmonella typhimurium	Negative
Germ cell mutagenicity	No data available
Human experience	If the recommended workplace concentration of the product is exceeded the respiratory tract may be mechanically overcharged as with other fine dusts.
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
Repeated dose toxicity - inhalation - rat and hamster	Sediment in the lungs / no evidence of fibrosis, no pathological changes / 2 years
Reproductive toxicity	No data available
Respiratory or skin sensitisation - maximisation test - guinea pig	DId not cause sensitisation on laboratory animals
Sensitization - Draize-test - guinea pig	Not sensitizing
Skin irritation - rabbit	No skin irritation
Skin irritation - rabbit	Not irritating
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
Amorphous Pyrogenic Silica(112945-52-5)	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity - Dermal	No data available
Acute toxicity - Inhalation	No data available
Additional information	Stomach irregularities based on human evidence
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Aspiration hazard	No data available
Carcinogenicity - Rat - Inhalation	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors
Germ cell mutagenicity - rat	Unscheduled DNA synthesis
Germ cell mutagenicity - rat - lungs	Body fluid assay
IARC	Not classifiable as to its carcinogenicity to human
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as as known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identifed as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Respiratory or skin sensation	No data available
Skin irritation	No data available
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
Amorphous Silica(112926-00-8)	

ACGIH	no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity	no data available
Acute toxicity: Dermal	no data available
Acute toxicity: Inhalation	no data available
Additional information	Amorphous silica is not classified as to its carcinogenicity to humans, however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1, IARC). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach - irregularities - based on human evidence
Aspiration hazard	no data available
Carcinogenicity: IARC: Group 3:	not classifiable as to its carcinogenicity to humans
Eye irritation	no data available
Germ cell mutagenicity	no data available
NTP	no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	no data available
Respiratory or skin sensation	no data available
Skin irritation	no data available
Specific target organ toxicity - repeated exposure	no data available
Specific target organ toxicity - single exposure	no data available
Barium Sulfate(7727-43-7)	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity - Dermal	No data available
Acute toxicity - inhalation	No data available
Additional information	Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation., Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach irregularities - based on human evidence
Aspiration hazard	No data available
Carcinogenicity - rat - intrapleural - tumorigenic	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors
Eye irritation	No data available
Germ cell mutagenicity - mouse - micronucleus test	No reported data
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Respiratory or skin sensation	No data available
Skin irritation	No data available
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
Titanium Dioxide(13463-67-7)	
Acute toxicity - inhalation	No data available
Acute toxicity - LD50 - dermal - rabbit	> 10000 mg/kg
Acute toxicity - LD50 - oral - rat	> 10000 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Aspiration hazard	No data available
Eye irritation - rabbit	No eye irritation

Germ cell mutagenicity - hamster - lungs	DNA inhibition
Germ cell mutagenicity - hamster - ovary - micronucleus test	No results available
Germ cell mutagenicity - hamster - ovary - sister chromatid exchange	No results available
Germ cell mutagenicity - mouse - micronucleus test	No results available
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Respiration or skin sensitisation	Will not occur
Skin irritation - human	Mild skin irritation - 3 h
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
Zinc 2-Mercaptobenzotriazole(155-04-4)	
Acute toxicity estimates	Not available
Acute toxicty - LD50 - oral - rat	7500 mg/kg
Acute toxicty -LD50 - dermal - rabbit	> 7940 mg/kg
Aspiration hazard	Not available
Carcinogenicity	No known significant effects or critical hazards
Conclusion/Summary	In NTP studies, MBT in corn oil was force fed through a stomach tube to rats and mice for two years. An increased incidence of tumors in a number of tissues was seen in rats. No increase in the incidence of tumors was observed in mice. The strength of the data was evaluated "some," "equivocal," "no" or "inadequate" evidence of carcinogenicity. Because only a limited response occured, NTP interpreted these studies as tumor response (e.g.: no effect in mice; some effect in rats) and other concerns about the conduct of these studies makes it difficult to clearly assess the significance of the results to those who work with MBT. We recommend that worker exposure to MBT should be minimized.
Developmental effects	No known significant effects or critical hazards
Eye irritation - rabbt	Not irritating to the eyes
Fertility effects	No known significant effects or critical hazards
General	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to lower levels
Likely routes of exposure	Oral, dermal, inhalation
Long term exposure - potential delayed effects	Not available
Long term exposure - potential immediate effects	Not available
Mutagenicity	No known significant effects or critical hazards
Mutagenicity - in vitro - bacteria	Negative
Potential acute health effects - eye contact	Exposure to airborne concentrations above statutory or recommended exposure mimits may cause irritation of the eyes
Potential acute health effects - Ingestion	No known significant effects or critical hazards
Potential acute health effects - inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs
Potential acute health effects - skin contact	May cause an allergic skin reaction
Potential chronic health effects	Not available
Reproductive toxicty	Not available
Sensitization - skin - guinea pig	Sensitizing
Sensitization - skin - mouse	Sensitizing
Short term exposure - potential delayed effects	Not available
Short term exposure - potential immediate effects	Not available
Skin irritation - rabbit	Not irritating to the skin
Specific target organ toxicity - repeated exposure	Not available

Specific target organ toxicity - single exposure	Not available
Symptoms - eye contact	Irritation, redness
Symptoms - ingestion	No specific data available
Symptoms - inhalation	Coughing
Symptoms - skin contact	Irritation, redness
Teratogenicity	A teratology study in rats with MBT showed negative results. An increase in birth defects was observed in groups of rats and mice given mercaptobenzothiazole disulfide by stomach tube, but only at doses that produced adverse effects on mothers. No effects were observed in the other dose groups. However, an increase in embryo death and post implantation losses was reported in another study using rats. Similar results were reported in a fertility study also using rats. Mice were given MBT at a dosage of 464 mg/kg by subcutaneous injection on days 6 - 15 of gestation. In two strains, increased incidents of fetal malformations were noted, but only at maternally toxic doses.
Teratogenicity	No known significant effects or critiical hazards

12. ECOLOGICAL INFORMATION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)	
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects
PBT & vPvB	not available/not required
Persistence and degradability - biodegradability - aerobic - exposure time: 44 d	0.5 - 1% - not biodegradable
Toxicity to algae - growth inhibition - EC50 - Desmodesmus subspicatus	29 - 30 mg/l - 72 h
Toxicity to bacteria - Respiration inhibition - IC50 - Sludge Treatment	> 100 mg/l 3 h
Toxicity to daphnia and other aquatic invertebrates - Immobilization - EC50 - daphnia magna (water flea)	> 100 mg/l - 24 h
Toxicity to fish - static test LC50 - danio rerio (zebra fish)	> 77 mg/l - 96 h
2-Mercaptobenzothiazole(149-30-4)	
Bioaccumulative potential - bioaccumulation - carp	0.1 mg/L / 42 d
Bioaccumulative potential - Bioconcentration factor	< 0.8
Mobility in soil	No data available
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.
PBT and vPvB	Not available/not required
Persistence and degradability - biodegradability - biotic/aerobic	1% - not readily biodegradable - exposure time: 28 d
Toxicity to algae - growth inhibition - EC50 - green algae	0.5 mg/L - 72 h
Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea)	0.71 mg/L / 48 h
Toxicity to fish - flow-through test - LC50 - rainbow trout	0.73 mg/L / 96 h
Aluminum Oxide(1344-28-1)	
Bioaccumulative potential	Does not bioaccumulate
Mobility in soil	No data available
Other adverse effects	No data available.
PBT and vPvB	Not available/not required
Persisitence and degradability	The methods for determining biodegradability are not applicable to inorganic substances
Toxicity	No toxicity at the limit of solubility

Toxicity to algae - EC50 - selenastrum capricornutum	> 100 mg/L / 72 h
Toxicity to daphnia - EC50 - daphnia magna	> 100 mg/L / 48 h
Toxicity to fish - LC50 - Salmo trutta	> 100 mg/L / 96 h
Amorphous Pyrogenic Silica(112945-52-5)	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Persistence and degradability	No data available
Toxicity	No data available
Amorphous Silica(112926-00-8)	
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Persistence and degradability	no data available
Toxicity	no data available
Barium Sulfate(7727-43-7)	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Persistence and degradability	The methods for determining biodegradability are not applicable in inorganic substances
Toxicity	No data available
Pentaerythritol tetrakis(6683-19-8)	
Other adverse effects	No data available
Titanium Dioxide(13463-67-7)	
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available
PBT and vPbV	Not available/not required
Persistence and degradability	No data available
Toxicity to daphnia and other aquatic invertebrates - EC0 - Daphnia magna (water flea)	1000 mg/L / 48 h
Toxicity to daphnia and other aquatic invertebrates - EC50 - Dapphnia magna (water flea)	> 1000 mg/L / 48 h
Toxicity to fish - LC50 - other fish	> 1000 mg/L / 96 h
Zinc 2-Mercaptobenzotriazole(155-04-4)	
Acute toxicity - EC50 - algae	0.25 mg/l / 96 h
Acute toxicity - LC50 - daphnia	4.1 mg/L / 48 h
Acute toxicity - LC50 - fish	0.73 mg/L / 96 h
Bioaccumulative potential	Low
Bioaccumulative potential - BCF	< 8
Bioaccumulative potential - LogPow	5.02
Mobility	Not available
Mobility in soil - soil/water partition coefficient	Not available
Other adverse effects	No known significant effects or critical hazards
PBT and vPvB	Not applicable
Persistence and degradability	2% - 35 days

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.

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#
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Titanium Dioxide	13463-67-7
Zinc 2-Mercaptobenzotriazole	155-04-4
2-Mercaptobenzothiazole	149-30-4
Aluminum Oxide	1344-28-1

SARA 313 : No SARA 313 chemicals are present

CLEAN AIR ACT :

INTERNATIONAL REGULATIONS

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

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

NATIONAL REGULATIONS

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

National Regulations Key
~ Indicates a chemical listed by IARC as a possible carcinogen.
^ Indicates a chemical listed by IARC as carcinogenic to humans.

STATE REGULATIONS
CALIFORNIA PROPOSITION 65

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

Proposition 65 Key

* **WARNING:** This product can expose you to a chemical(s), including those listed above, which is (are) known to the State of California to cause cancer.
For more information visit 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#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Amorphous Silica	112926-00-8
Aluminum Oxide	1344-28-1

Pennsylvania Right to Know

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

New Jersey Right to Know

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

16. OTHER INFORMATION

Other Product Information:

% Volatile by Volume :	0.00	% Volatile by Weight :	0.00
% Solids by volume :	100.00	% Solids by Weight :	100.00

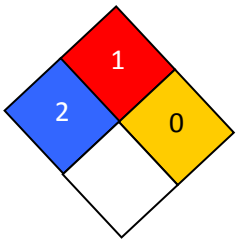
VOC CONTENT:

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

HMIS RATING

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

NFPA CODES



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