

T013-BL468 BLUE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T013-BL468 BLUE

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
1,3,5-Triglycidyl Isocyanurate	1% - 5%	2451-62-9
Titanium Dioxide	1% - 5%	13463-67-7

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



SAFETY DATA SHEET

ISSUED: 8/16/2018 **REFERENCE:** BL468-T013

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

9)		
TWA (Time Weighted Average)	0.05 mg/m3 8 hours	
Aluminum Oxide(1344-28-1)		
(OEL) Table Z-1, TWA	15 mg/m3	
(TLV) TWA	1 mg/m3	
TWA (Time Weighted Average)	0.025 mg/m3 8 hours	
Not Applicable	Not Applicable	
TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hours	
TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
	hours	
TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hour	
TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
	hours	
Titanium Dioxide(13463-67-7)		
TWA (Time Weighted Average)	10 mg/m3 8 hours	
TWA (Time Weighted Average)	15 mg/m3 8 hours	
	TWA (Time Weighted Average) (OEL) Table Z-1, TWA (TLV) TWA TWA (Time Weighted Average) Not Applicable TWA (Time Weighted Average) TWA (Time Weighted Average) TWA (Time Weighted Average) TWA (Time Weighted Average) TWA (Time Weighted Average)	

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	:	1.7120
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.	Positive
typhimurium	
Germ cell mutagenicity - AMES test -	Positive
mouse - male	
IARC	No component of this product present at levels greater than or equal to
	0.1% is identified as a probable, possible or confirmed human carcinogen
	by IARC
ACGIH	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	properties have not been thoroughly investigated
Aluminum Oxide(1344-28-1)	
Aluminum Oxide(1344-28-1) Acute toxicity - LD50 - oral - rat	> 10,000 mg/kg
	> 10,000 mg/kg > 2.6 mg/L / 4 h
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat	
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal	> 2.6 mg/L / 4 h
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit	> 2.6 mg/L / 4 h No data available No skin irritation
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation -	> 2.6 mg/L / 4 h No data available No skin irritation
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification
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Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification 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
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity IARC	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification 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
Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity IARC	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification 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
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Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity IARC	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification 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 by NTP No component of this product present at levels greater than or equal to
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Acute toxicity - LD50 - oral - rat Acute toxicity - LC50 - inhalation - rat Acute toxicity - dermal Skin irritation - rabbit Eye irritation - rabbit Respiratory or skin sensitisation - maximisation test - guinea pig Germ cell mutagenicity Carcinogenicity IARC NTP OSHA Reproductive toxicity	> 2.6 mg/L / 4 h No data available No skin irritation No eye irritation DId not cause sensitisation on laboratory animals No data available This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification 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 by NTP No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available
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Germ cell mutagenicity - mouse - micronucleus test	No reported data
Carcinogenicity - rat - intrapleural - tumorigenic	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional information	Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation., Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach irregularities - based on human evidence
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
IARC	Group 1: Carcinogenic to humans (Quartz)
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	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
Limestone(1317-65-3)	750 (0.44)
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



Mustapenicity No information available	Reproductive effects	No information available
Pentaerythritol letrokis(6883-19-8) Acute toxicity - LCSO - inabalation - male and female rat 2 - 5000 mg/kg 3 - 1.95 mg/l / 4h and female rat Acute toxicity - LDSO - dermal - male and range and		No information available
Acute toxicity - LDS0 - oral - male rat Acute toxicity - LDS0 - oral - male rat Acute toxicity - LDS0 - dermal - male and female rat Acute toxicity - LDS0 - dermal - male and female rabbit	Neurotoxicity	No information available
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Aspiration hazard No data available Additional information Repeated dose toxicity - male and female rat - oral - no observed adverse		No data available
Additional information Repeated dose toxicity - male and female rat - oral - no observed adverse		
	Additional information	



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
Germ cell mutagenicity - hamster - ovary -	No results available
micronucleus test	No results available
Germ cell mutagenicity - hamster - lungs	DNA inhibition
Germ cell mutagenicity - hamster - ovary -	No results available
sister chromatid exchange	No results available
Germ cell mutagenicity - mouse -	No results available
micronucleus test	No results available
IARC	No component of this product present at levels greater than or equal to
TAKE	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	No data available
exposure	
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	properties have not been thoroughly investigated
Tris(2,4-ditert-butylphenyl) phosphite(3157	0-04-4)
LD50 - oral - male and female rat - Acute	> 6000 mg/kg
Toxicity	
LD50 - dermal - male and female rat	> 2000 mg/kg
Skin irritation - rabbit	No alice instantion / 2.4 le
OKIII MIRAGION TADDIC	No skin irritation / 24 h
Eye irritation- rabbit	No eye irritation / 30 s
Eye irritation- rabbit Respiratory or skin sensitization - guinea	
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig	No eye irritation / 30 s Does not cause skin sensitization
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test	No eye irritation / 30 s
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae	No eye irritation / 30 s Does not cause skin sensitization
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster	No eye irritation / 30 s Does not cause skin sensitization Negative
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female	No eye irritation / 30 s Does not cause skin sensitization
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests No component of this product present at levels greater than or equal to
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH No component of this product present at levels greater than or equal to
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Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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
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Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available No adverse effect has been observed in chronic toxicity tests
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit Specific target organ toxicity - single	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available
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Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit Specific target organ toxicity - single exposure Specific target organ toxicity - repeated	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available No adverse effect has been observed in chronic toxicity tests
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available No adverse effect has been observed in chronic toxicity tests No data available
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit Specific target organ toxicity - single exposure Specific target organ toxicity - repeated	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available No adverse effect has been observed in chronic toxicity tests No data available Repeated dose toxicity - rat - male and female - oral - No observed
Eye irritation- rabbit Respiratory or skin sensitization - guinea pig Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster Carcinogenicity - oral - male and female rat IARC ACGIH NTP OSHA Reproductive toxicity Developmental toxicity - oral - rabbit Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	No eye irritation / 30 s Does not cause skin sensitization Negative No adverse effect has been observed in chronic toxicity tests 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 carcinogen or potential carcinogen by ACGIH 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 carconogen by OSHA Not data available No adverse effect has been observed in chronic toxicity tests No data available

12. ECOLOGICAL INFORMATION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)	
Toxicity to fish - static test LC50 - danio	> 77 mg/l - 96 h
rerio (zebra fish)	



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 - IC50 - Sludge Treatment	> 100 mg/l 3 h
Persistence and degradability -	0.5 - 1% - not biodegradable
biodegradability - aerobic - exposure time:	-
44 d	AL L. C.
Bioaccumulative potential Mobility in soil	No data available 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
Aluminum Oxide(1344-28-1)	
Toxicity	No toxicity at the limit of solubility
Persisitence and degradability	The methods for determining biodegradability are not applicable to inorganic substances
Bioaccumulative potential	Does not bioaccumulate
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available.
Barium Sulfate(7727-43-7)	
Toxicity	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable in
Bioaccumulative potential	inorganic substances No data available
Mobility in soil	No data available 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 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)	
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	2 200 mg/c/ /2 m
Toxicity to bacteria - respiration inhibition IC50 - sludge treatment	> 100 mg/L / 3 h
Persistence and degradability - biodegradability - aerobic	5% - not biodegradable : exposure time - 28 d
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available
Phthalocyanine Blue(147-14-8)	> 100 mg/L / 06 h
Toxicity to fish - mortality LC50 - zebra fish Toxicity to fish - mortality LC50 - carp	> 100 mg/L / 96 h > 100 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 500 mg/L / 48 h
invertebrates - immobilization EC50 -	- 500 mg/ = / 10 m
Daphnia magna (water flea)	
Toxicity to algae - static EC50 - green algae	> 100 mg/L / 72 h
Toxicity to bacteria - respiration inhibition - EC50 - sludge treatment	> 10000 mg/L / 3h



Persistence and degradability -	5% - not biodegradable - exposure time: 28 d
biodegradability - aerobic	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
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	No data available
Mobility in soil	No data available
PBT and vPbV	Not available/not required
Other adverse effects	No data available
Tris(2,4-ditert-butylphenyl) phosphite(31570)-04-4)
Toxicity to fish - static LC0 - zebra fish	100 mg/L / 96 h
Toxicity to daphnia and other aquatic	510 mg/L / 24 h
invertebrates - static EC50 - Daphnia	
magna	
Toxicity to algae - static EC50 -	> 75 mg/L / 72 h
Scenedesmus subspicatus	
Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
IC50 - sludge treatment	
Persistence and degradability -	6% - not readily biodegradable - exposure: 28 d
biodegradability - aerobic	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required

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: 8/16/2018 **REFERENCE:** BL468-T013

14. TRANSPORT INFORMATION

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

USDOT GROUND

DOT (DEPARTMENT OF TRANSPORTATION)

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

HAZARDS CLASS: None

UN/NA NUMBER: Not Applicable

PACKING GROUP: None

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IATA (AIR)

DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION)

PROPER SHIPPING NAME: Not Regulated/Not Applicable

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

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

IMDG (OCEAN)

PROPER SHIPPING NAME: Not Regulated, Not Applicable

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

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

MARINE POLLUTANT: No

SPECIAL PRECAUTIONS: P235 Keep cool.



SAFETY DATA SHEET

ISSUED: 8/16/2018 **REFERENCE:** BL468-T013

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

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
*Crystalline Silica	14808-60-7

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
Limestone	1317-65-3
Titanium Dioxide	13463-67-7
Aluminum Oxide	1344-28-1
Crystalline Silica	14808-60-7

Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
Titanium Dioxide	13463-67-7
Pentaerythritol tetrakis	6683-19-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Aluminum Oxide	1344-28-1
Crystalline Silica	14808-60-7

New Jersey Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Titanium Dioxide	13463-67-7
Phthalocyanine Blue	147-14-8
Pentaerythritol tetrakis	6683-19-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Aluminum Oxide	1344-28-1
Crystalline Silica	14808-60-7



RDINAL SAFETY DATA SHEET

ISSUED: 8/16/2018 **REFERENCE:** BL468-T013

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

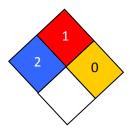
VOC CONTENT:

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

HMIS RATING

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

NFPA CODES



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