

T353-YL02 BRASS (40 LB BXS)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T353-YL02 BRASS (40 LB BXS) **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	
Copper	1% - 5%	7440-50-8	
Zinc	1% - 5%	7440-66-6	

4. FIRST AID MEASURES

Description of first aid measures.

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



SAFETY DATA SHEET

ISSUED: 8/28/2018 REFERENCE: YL02-T353

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)			
TWA (Time Weighted Average)	0.05 mg/m3 8 hours		
(WEEL) TWA	5 mg/m3		
USA OSHA TWA (Table Z-1)	6 mg/m3		
USA OSHA TWA (Tabla Z-3)	20 Million particals per cubic foot.		
USA NIOSH TWA (REL)	6 mg/m3		
TWA (Time Weighted Average)	1 mg/m3 8 hours		
TWA (Time Weighted Average)	1 mg/m3 10 hours		
TWA (Time Weighted Average)	1 mg/m3 8 hours		
OSHA PEL (Permissible Exposure Limit) TWA (Time Weighted Average) 1 mg/m3 8 hours Iron Oxide(1309-37-1)			
USA ACGIG (TLV) TWA	5 mg/m3		
USA OSHA (OEL) TWA Table Z-1	15 mg/m3		
USA NIOSH (REL) TWA	5 mg/m3		
USA NIOSH			
TWA (Time Weighted Average)	3mg/m3 (Respirable Fraction) 8		
	hours		
Ceiling	20 mppcf		
TWA (Time Weighted Average)	3mg/m3 (Respirable Fraction)		
USA NIOSH TWA (REL)	6 mg/m3		
USA OSHA TWA (Table Z-3)	20 mppcf		
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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	:	1.2801
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

Acute toxicity - LDS0 - oral - rat	1,3,5-Triglycidyl Isocyanurate(2451-62-9)	
Acute toxicity - LCS0 - Inhalation - rat - male - 4 h Acute toxicity - LDS0 - Dermal - rat- male Skin irritation - rabbit Skin irritation - rabbit Skin irritation - rabbit Respiratory or skin sensation - Maximization test - guinea pig Germ cell mutagenicity - AMES test - Suphimurum Germ cell mutagenicity - AMES test - Suphimurum ACGIH 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 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 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 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 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 carcinogen or potential carcinogen by ACGIH No data available No		100 - 200 mg/kg
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Acute toxicity - LDS0 - Dermal - rat- male 8, female 8, female 9k.		2 030 mg/m3
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exposure Specific target organ toxicity - repeated No data available		No data available
exposure		No data available
	exposure	



Assistation boroud	No data available
Aspiration hazard Additional information	No data available Repeated dose toxicity - male and female rat - lowest observed adverse
Additional information	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)	
Acute toxicity	no data available
Acute toxicity: Inhalation	no data available
Acute toxicity: Dermal	no data available
Skin irritation	no data available
Eye irritation	no data available
Respiratory or skin sensation	no data available
Germ cell mutagenicity	no data available
Carcinogenicity: IARC: Group 3:	not classifiable as to its carcinogenicity to humans
ACGIH	no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	no component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	no component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	no data available
Specific target organ toxicity - single exposure	no data available
Specific target organ toxicity - repeated exposure	no data available
Aspiration hazard	no data available
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
Additional information	investigated. Stomach - irregularities - based on human evidence
Copper(7440-50-8)	
LD50 Intraperitoneal - Mouse	3.5 mg/kg
Skin corrosion/irritation	May irritate skin
Serious eye damage/eye irritation	May irritate eyes
Iron Oxide(1309-37-1)	No data available
Acute toxicity	No data available
Acute toxicity - dermal	`No data available
Skin irritation - human	Skin irritation
Eye irritation - human	Moderate eye irritation
Respiratory or skin sensitization	No data available
Germ cell mutagenicity Carcinogenicity - rat - subcutaneous	No data available Equivocal tumorogenic agent by RTECS criteria. Tumors at site of
Carcinogenicity	appilcation. This product is or contains a component that is not classifiable as to its
IARC	carcinogenicity based on its IARC, ACGIH, NTP or EPA classification. Group 3: not classifiable as to its carcinogenicity to humans (diiron
NTP	trioxide). No component of this product present at levels greater than or equal to
OSHA	0.1% is identified as a kown or anticpated carcinogen by NTP. No component of this product present at levels greater than or equal to
B I iii ii ii	0.1% is identified as ca carcinogen or potential carcinogen by OSHA.
Reproductive toxicity Specific target organ toxicity - single exposure	No data available inhalation - may cause respiratory irritation.
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional information	Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiological impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



Inhalation, Ingestion Toxicity to animals - US0	Mica(12001 26 2)	
Toxicity to animals - LOS0 Not available Toxicity to animals The substance is toxic to lungs, mucous membranes. The substance is toxic to lungs, mucous membranes. The substance is toxic to lungs, mucous membranes. Toxicity continues to the chronic effects on kin contact (irritant). Special remarks on the toxicity to animals Special remarks on other toxic effects on humans Special remarks on the toxic effects on	Mica(12001-26-2)	Inhalation ingestion
Toxicity to animals - LCS0 Chronic effects on humans Cher toxic effects on humans The substance is toxic to lungs, mucous membranes. Hazaroud on case of ingestion, of inhalation. Slightly hazardous in case of special remarks on the toxicity to animals Special remarks on the toxicity to animals Special remarks on other toxic effects on humans Special remarks on other toxic effects on humans Special remarks on the thronic effects on humans Special remarks on other toxic effects on humans Special remarks on the toxicity of the special		
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Special remarks on the toxicity to animals Special remarks on the chronic effects on humans Special remarks on other toxic effects on humans Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - oral - male rat Acute toxicity - LD50 - dermal - male and femaler abity Acute toxicity - LD50 - dermal - male and femaler abity Acute toxicity - LD50 - intraperitoneal - rat Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit Acute toxicity - rabbit Acute toxicity - TD50 - intraperitoneal - rat Skin corrosion - rabbit Acute toxicity - Ames test - S. Ophimurium Does not cause skin sensitization Does not cause skin		
Special remarks on the toxicity to animals Special remarks on the toxicity for special remarks on the chronic effects on humans	Other toxic effects of fluffialis	
Special remarks on the chronic effects on humans Not available Nuisance dust. Nuisa	Special remarks on the toxicity to animals	
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Dumms		Nuisance dust.
Pentaerythritol tetrakis(6683-19-8) Acute toxicity - LD50 - or al - male rat > 5000 mg/kg Acute toxicity - LD50 - or almalation - male and female ratbit > 1.95 mg/l / 4h Acute toxicity - LD50 - or almalation - male and female rabbit > 3160 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - LD50 - intraperitoneal - rat > 1000 mg/kg Acute toxicity - micronucleus test - sold Acute toxicity - micronucleus test - sold Acute toxicity - micronucleus test - male Acute toxicity - micronucleus test - male Acute toxicity Acute - Acute toxicity Acute - A	· ·	Traiburide dubtr
Acute toxicity - LD50 - oral - male rat > 5000 mg/kg > 1.95 mg/l / 4 Acute toxicity - LD50 - inhalation - male 3160 mg/kg 1.95 mg/l / 4 1.95 mg/l / 4 1.95 mg/l / 4 1.95 mg/l / 4 1.95 mg/l / 4 1.95		
Acute toxicity - LCS0 - inahalation - male and female rat		> 5000 mg/kg
and female rat Acute toxicity - LDS0 - dermal - male and female rabbit Acute toxicity - LDS0 - intraperitoneal - rat Skin corrosion - rabbit Eye irritation - 24 h No eye irritation - 24 h No eye irritation Does not cause skin sensitization Does		> 1.95 mg/l / 4h
Female rabbit	and female rat	
Actute toxicity - LD50 - intraperitoneal - rat No skin irritation - 24 h	Acute toxicity - LD50 - dermal - male and	> 3160 mg/kg
Skin corrosion - rabbit No skin irritation - 24 h		
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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 exposure Specific target organ toxicity - repeated exposure Aspiration hazard No data available No data available 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 (silicon dioxide)		
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OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA Reproductive toxicity No data available Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information No data available 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 (silicon dioxide)	INTE	
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Additional information To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Additional information Stomach irregularities based on human evidence (silicon dioxide)		No data available
properties have not been thoroughly investigated Additional information Stomach irregularities based on human evidence (silicon dioxide)		
Additional information Stomach irregularities based on human evidence (silicon dioxide)		properties have not been thoroughly investigated
Tris(2,4-ditert-butylphenyl) phosphite(31570-04-4)		Stomach irregularities based on human evidence (silicon dioxide)
	Tris(2,4-ditert-butylphenyl) phosphite(31570	0-04-4)



LD50 - oral - male and female rat - Acute	> 6000 mg/kg
Toxicity	
LD50 - dermal - male and female rat	> 2000 mg/kg
Skin irritation - rabbit	No skin irritation / 24 h
Eye irritation- rabbit	No eye irritation / 30 s
Respiratory or skin sensitization - guinea pig	Does not cause skin sensitization
Germ cell mutagenicity -Ames test	Negative
(micronucleus test) - male and femae hamster	
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
IARC	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	Tro data dvallable
Specific target organ toxicity - repeated exposure	No data available
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
Zinc(7440-66-6)	
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 sensitization	Did not cause sensitization on laboratory animals
Germ cell mutagenicity	No data 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
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 pressent 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	Effects due to ingestion may include; chills, dry throat, sweet taste, fever, cough, nausea, vomiting, weakness, contact with eyes or skin may cause irritation

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	29 - 30 mg/l - 72 h
 Desmodesmus subspicatus 	



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	0.5 - 1% - not blodegradable
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
0.000	unprofessional handling or disposal. Harmful to aquatic life with long lasting effects
2-Mercaptobenzothiazole(149-30-4)	, maning and a
Toxicity to fish - flow-through test - LC50 - rainbow trout	0.73 mg/L / 96 h
Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea)	0.71 mg/L / 48 h
Toxicity to algae - growth inhibition - EC50 - green algae	0.5 mg/L - 72 h
Persistence and degradability - biodegradability - biotic/aerobic	1% - not readily biodegradable - exposure time: 28 d
Bioaccumulative potential - bioaccumulation - carp	0.1 mg/L / 42 d
Bioaccumulative potential - Bioconcentration factor	< 0.8
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 daverse effects	unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.
Amorphous Silica(112926-00-8)	
Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Copper(7440-50-8)	
Toxicity to fish	mortality LOEC - Oncorhynchus mykiss (rainbow trout - 0.022 mg/l - 96h
Toxicity to daphnia and other invertebrates	mortality NOEC - Daphnia (water flea) - 0.004 mg/l - 24 h
	EC50 - Daphnia magma (Water flea) - 0.04 - 0.05 mg/l - 48 h
Toxicity to daphnia and other invertebrates	EC50 - Daprinia magma (water nea) - 0.04 - 0.05 mg/i - 48 n
Iron Oxide(1309-37-1)	Land the state of
Toxicity	No data available
Persisitence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available
Mica(12001-26-2)	
Ecotoxicity	Not available
BOD5 and COD	Not available
Products of biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the products of biodegradation	The products of degradation are as toxic as the original product
Special remarks on the products of biodegradation	Not available
Pentaerythritol tetrakis(6683-19-8)	
Toxicity to fish - static LC50 - zebra fish	> 100 mg/L / 96 h
	> 100 mg/L / 96 h > 86 mg/L / 24 h
Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - daphnia magna (water flea)	> 00 mg/L / 24 m
Toxicity to algae - static EC50 - Scenedesmus subspicatus	> 100 mg/L / 72 h
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
	LINELLIALA AVALIALISE



Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available
Silicon Dioxide(7631-86-9)	140 data avaliable
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvP	Not available/not required
Tris(2,4-ditert-butylphenyl) phosphite(31570	
Toxicity to fish - static LC0 - zebra fish	100 mg/L / 96 h
Toxicity to daphnia and other aquatic	510 mg/L / 24 h
invertebrates - static EC50 - Daphnia	313 mg/2/ 21 m
magna	
Toxicity to algae - static EC50 -	> 75 mg/L / 72 h
Scenedesmus subspicatus	5, ,
Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
IC50 - sludge treatment	3. ,
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
Zinc(7440-66-6)	
Toxicity to fish - LC50 - carp	450 ug/L / 96 h
Toxicity to daphnia and other aquatic	0.068 mg/L / 48 h
invertebrates - LC50 - daphnia magna	
Toxicity to daphnia and other aquatic	0.101 - 0.14 mg/L / 7 d
invertebrates - mortality NOEC - daphnia	
Persistence and degradability	The methods for determining the biological degradability are not
	applicable to inorganic substances.
Bioaccumulative potential - algae	5 ug/L / 7 d
Bioaccumulative potential -	466
bioconcentration factor	
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
	unproffesional handling or disposal. Very toxic to aquatic life with long
	lasting effects.

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.

ARDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 **REFERENCE:** YL02-T353

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: 8/28/2018 **REFERENCE:** YL02-T353

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
Copper	7440-50-8
Zinc	7440-66-6

SARA 313 : This Product Contains Zinc Powder (CAS 7440-66-6)

This Product Contains Copper Powder (CAS 7440-50-8)

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

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: 8/28/2018 **REFERENCE:** YL02-T353

STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*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 <u>WWWPROP65.CA.GOV</u>.

· A

WARNING: This product can expose you to a chemical(s), including those listed above, which is (are) known to the

State of California to cause birth defects or other reproductive harm.

For more information visit <u>WWWPROP65.CA.GOV</u>.

WARNIN

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#
Copper	7440-50-8
Zinc	7440-66-6
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Mica	12001-26-2
Iron Oxide	1309-37-1

Pennsylvania Right to Know

This product contains	Chemical CAS#
Copper	7440-50-8
Zinc	7440-66-6
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Mica	12001-26-2
Pentaerythritol tetrakis	6683-19-8
Iron Oxide	1309-37-1
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4



New Jersey Right to Know

This product contains	Chemical CAS#
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Copper	7440-50-8
Zinc	7440-66-6
Amorphous Silica	112926-00-8
Silicon Dioxide	7631-86-9
Mica	12001-26-2
Pentaerythritol tetrakis	6683-19-8
Iron Oxide	1309-37-1
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4



RDINAL SAFETY DATA SHEET

ISSUED: 8/28/2018 **REFERENCE:** YL02-T353

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

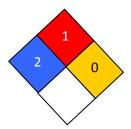
VOC CONTENT:

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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