

# T375-BK26 SILVER

# 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** T375-BK26 SILVER

**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	
Carbon Black	0.50% - 0.99%	1333-86-4	
Aluminum	<1%	7429-90-5	

# 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:** 8/27/2018 **REFERENCE:** BK26-T375

**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	ı'			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours		
Aluminum(7429-90-5)	Aluminum(7429-90-5)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	1 mg/m3 8 hours		
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8 hours		
NIOSH REL (Recommended Exposure Limit)	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 10 hours		
Amorphous Silica(112926-00-8)				
USA OSHA	USA OSHA TWA (Table Z-1)	6 mg/m3		
USA OSHA	USA OSHA TWA (Tabla Z-3)	20 Million particals per cubic foot.		
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3		
Carbon Black(1333-86-4)				
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	3 mg/m3 8 hours		
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours		
NIOSH REL (Recommended Exposure Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours		
NIOSH REL (Recommended Exposure Limit )	TWA (Time Weighted Average)	0.1mg of PAHs/cm3 10 hours		
E-Caprolactam(105-60-2)				
ACGIH TLV (Threshold Limit Value)	TWA ( Time Weighted Average)	5mg/m3 8 hours		
USA NIOSH	USA NIOSH TWA (REL)	1 mg/m3		
USA NIOSH	USA NIOSH ST (REL)	3 mg/m3		

# PERSONAL PROTECTIVE EQUIPMENT

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

HAND PROTECTION: Wear protective gloves.

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

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

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Solid
Melting point	:	55 - 90 deg C
Flash point	:	No data available.
Lower explosion limit	:	10 g/m <sup>3</sup>
Upper explosion limit	:	70 g/m <sup>3</sup>
Density	:	1.5197
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 - LD50 - oral - rat  Acute toxicity - LC50 - inhalation - rat -	> 650 mg/m3
male - 4 h	> 050 Hig/Hi5
Acute toxicity - LD50 - Dermal - rat- male	> 2000 mg/kg
& female	- 2000 mg/kg
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
ACCILI	by IARC
ACGIH	No component of this product present at levels greater than or equal to
NTP	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
INII	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
03177	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
(= (= 0 = 0 = 1)	
Aluminum(7429-90-5)	
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Likely routes of exposure - inhalation Likely route sof exposure - skin contact Likely routes of exposure - eye contact Likely routes of exposure - ingestion Symptoms related to toxicological characteristics Acute toxicity - dermal - LD50 - rat Acute toxicity - oral - LD50 - mouse Acute toxicity - oral - LD50 - rat Skin irritation Eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity  Carcinogenicity  IARC overall evaluation of carcinogenicity OSHA specifically regulated substances Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Not available  No adverse effects due to skin contact are expected.  Direct eye contact with eyes may cause temporary irritation.  Expected to be a low ingestion hazard.  Dusts may irritate the respiratory tract, skin and eyes.  2000 mg/kg  > 15000 mg/kg  Not expected to be hazardous by OSHA criteria.  Direct contact with eyes may cause temporary irritation.  Not a respiratory sensitizer.  This product is not expected to cause skin sensitization.  No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.  3 Not classifiable as to carcinogenicity to humans.  Not listed.  Not expected to be hazardous by OSHA criteria.  Not classified  Not classified  Not an aspiration hazard  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.
Likely routes of exposure - inhalation Likely route sof exposure - skin contact Likely routes of exposure - eye contact Likely routes of exposure - ingestion Symptoms related to toxicological characteristics Acute toxicity - dermal - LD50 - rat Acute toxicity - oral - LD50 - mouse Acute toxicity - oral - LD50 - rat Skin irritation Eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity  Carcinogenicity  IARC overall evaluation of carcinogenicity OSHA specifically regulated substances Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Not available  No adverse effects due to skin contact are expected.  Direct eye contact with eyes may cause temporary irritation.  Expected to be a low ingestion hazard.  Dusts may irritate the respiratory tract, skin and eyes.  2000 mg/kg  > 15000 mg/kg  Not expected to be hazardous by OSHA criteria.  Direct contact with eyes may cause temporary irritation.  Not a respiratory sensitizer.  This product is not expected to cause skin sensitization.  No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.  3 Not classifiable as to carcinogenicity to humans.  Not listed.  Not expected to be hazardous by OSHA criteria.  Not classified  Not classified  Not classified  Not an aspiration hazard  Not expected to be hazardous by OSHA criteria. Not expected to be
Likely routes of exposure - inhalation Likely route sof exposure - skin contact Likely routes of exposure - eye contact Likely routes of exposure - ingestion Symptoms related to toxicological characteristics Acute toxicity - dermal - LD50 - rat Acute toxicity - oral - LD50 - mouse Acute toxicity - oral - LD50 - rat Skin irritation Eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity  Carcinogenicity  IARC overall evaluation of carcinogenicity OSHA specifically regulated substances Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects  Further information Amorphous Silica(112926-00-8)	Not available  No adverse effects due to skin contact are expected.  Direct eye contact with eyes may cause temporary irritation.  Expected to be a low ingestion hazard.  Dusts may irritate the respiratory tract, skin and eyes.  2000 mg/kg  > 15000 mg/kg  Not expected to be hazardous by OSHA criteria.  Direct contact with eyes may cause temporary irritation.  Not a respiratory sensitizer.  This product is not expected to cause skin sensitization.  No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.  3 Not classifiable as to carcinogenicity to humans.  Not listed.  Not expected to be hazardous by OSHA criteria.  Not classified  Not classified  Not an aspiration hazard  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.
Likely routes of exposure - inhalation Likely route sof exposure - skin contact Likely routes of exposure - eye contact Likely routes of exposure - ingestion Symptoms related to toxicological characteristics Acute toxicity - dermal - LD50 - rat Acute toxicity - oral - LD50 - mouse Acute toxicity - oral - LD50 - rat Skin irritation Eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity  Carcinogenicity  IARC overall evaluation of carcinogenicity OSHA specifically regulated substances Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects	Not available No adverse effects due to skin contact are expected. Direct eye contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Dusts may irritate the respiratory tract, skin and eyes.  2000 mg/kg > 15000 mg/kg S000 mg/kg Not expected to be hazardous by OSHA criteria. Direct contact with eyes may cause temporary irritation. Not a respiratory sensitizer. This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria. 3 Not classifiable as to carcinogenicity to humans. Not listed. Not expected to be hazardous by OSHA criteria. Not classified  Not classified  Not classified  Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria. This product has no known adverse effects on human health.



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 investigated.
Additional information	Stomach - irregularities - based on human evidence
Barium Sulfate(7727-43-7)	
Acute toxicity - inhalation	No data available
Acute toxicity - Dermal	No data available
Skin irritation	No data available
Eye irritation Respiratory or skin sensation	No data available  No data available
Germ cell mutagenicity - mouse -	No reported data
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
Carbon Black(1333-86-4)	
LD50 Oral - Rat	> 8,000 mg/kg, male and female, (OECD Test Guideline 401)
LD50 Inhalation - Rat	No data available
LD50 Dermal - Rabbit	> 3,000 mg/kg
Skin corrosion/irritation	No skin irritation - 24 h, (OECD Test Guideline 404)  No eye irritation, (OECD Test Guideline 405)
Eye damage/irritation - Rabbit Respiratory/skin sensitization - Guinea pig	Did not cause sensitization on laboratory animals, (OECD Test Guideline 406)
Germ cell mutagenicity Hamster - Ovary	Ames test, S. typhimurium, negative  Negative
,	· -



DNA repair - Rat - Female	Negative
Carcinogenicity - Rat - Inhalation	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or
Caremogericity Nat Illianation	Respiration: Tumors. This product is or contains a component that has
	been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP,
	or EPA classification. Limited evidence of carcinogenicity in animal studies.
IARC	2B - Group 2B: Possibly carcinogenic to humans (carbon black)
NTP	No component of this product present at levels greater than or equal
	to0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than 0.1% is
OSHA	
	identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Organ toxicity	Specific target organ toxicity - single exposure: No data available
Organ toxicity	Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard	No data available
Additional Information	RTECS: FF5800000 To the best of our knowledge, the chemical , physical,
Additional Information	
· · · · · · · · · · · · · · · · · ·	and toxicological properties have not been throughly investigated.
E-Caprolactam(105-60-2)	
Acute toxicity - LD50 - oral - rat	1210 mg/kg
Remarks	Sense organs and special senses (nose, eye, ear and taste): Eye:
	Chromodacryorrhea
Behavioral	Convulsions or effect on seizure threshold.
Nutritional and Gross Metabolic - changes	Decrease
in body temperature	
Acute toxicity - LC50 - inhalation - rat	300 mg/m3
Acute toxicity - LC50 - inhalation - mouse	450 mg/m3: Muscle contraction or spasticity
Acute toxicity - LD50 - dermal - rat	> 2000 mg/kg
Skin irritation - rabbit	Mild skin irritation - 24 h
Eye irritation - rabbit	Moderate eye irritation - 24 h
Respiration or skin sensitization - germ cell	No data available
mutagenicity	
Carcinogenicity	This product is or contains a component that is probably not carcinogenic
	based on its IARC, ACGIH, NTP, or EPA classification.
IARC	Group 4: Probably not carcinogenic to humans
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	May cause respiratory irritation
, , , ,	Thay cause respiratory influction
exposure	No debe excitable
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	Convulsions, To the best of our knowledge, the chemical, physical, and
	toxicological properties have not been thoroughly investigated
Additional information	
Additional information	Stomach irregularities based on human evidence
Pentaerythritol tetrakis(6683-19-8)	
Acute toxicity - LD50 - oral - male rat	> 5000 mg/kg
Acute toxicity - LC50 - inahalation - male	> 1.95 mg/l / 4h
and female rat	
	> 3160 mg/kg
Acute toxicity - LD50 - dermal - male and	> 3160 mg/kg
Acute toxicity - LD50 - dermal - male and female rabbit	
Acute toxicity - LD50 - dermal - male and female rabbit Acute toxicity - LD50 - intraperitoneal - rat	> 1000 mg/kg
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit	> 1000 mg/kg No skin irritation - 24 h
Acute toxicity - LD50 - dermal - male and female rabbit Acute toxicity - LD50 - intraperitoneal - rat	> 1000 mg/kg
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit	> 1000 mg/kg No skin irritation - 24 h No eye irritation
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea	> 1000 mg/kg No skin irritation - 24 h
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.	> 1000 mg/kg No skin irritation - 24 h No eye irritation
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. typhimurium	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S.	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. typhimurium	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit Eye irritation - rabbit Respiratory or skin sesnsitization - guinea pig Germ cell mutagenicity - Ames test - S. typhimurium Mutagenicity - micronucleus test - male and female hamster	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative  Negative
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. typhimurium  Mutagenicity - micronucleus test - male	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative  Negative  No component of this product present at levels greater than or equal to
Acute toxicity - LD50 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit Eye irritation - rabbit Respiratory or skin sesnsitization - guinea pig Germ cell mutagenicity - Ames test - S. typhimurium Mutagenicity - micronucleus test - male and female hamster	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative  Negative  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 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat  Skin corrosion - rabbit  Eye irritation - rabbit  Respiratory or skin sesnsitization - guinea pig  Germ cell mutagenicity - Ames test - S. typhimurium  Mutagenicity - micronucleus test - male and female hamster  IARC carcinogenicity	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative  Negative  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 - dermal - male and female rabbit  Acute toxicity - LD50 - intraperitoneal - rat Skin corrosion - rabbit Eye irritation - rabbit Respiratory or skin sesnsitization - guinea pig Germ cell mutagenicity - Ames test - S. typhimurium Mutagenicity - micronucleus test - male and female hamster	> 1000 mg/kg  No skin irritation - 24 h  No eye irritation  Does not cause skin sensitization  Negative  Negative  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



Acr.	
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
	No data available
Specific target organ toxicity - single exposure	
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Phthalocyanine Blue(147-14-8)	The data distinction
Acute toxicty - LD50 - oral - male and	> 2000 mg/kg
female rat	
Acute toxicity - Inhalation	No data available
Acute toxicity - dermal - male and female rat	> 5000 mg/kg
Skin irritation - rabbit	No skin irritation - 4h
Eye irritation - rabbit	No eye irritation - 24 h
Respiration or skin sensitization -	Does not cause skin sensitisation
maximisation test - guinea pig	
Germ cell mutagenicity - hamster - fibroblast	Negative
Germ cell mutagenicity - Ames test - S. typhimurium	Negative
Germ cell mutagenicity - male and female mouse	Negative
Germ cell mutagenicity	Mutation in mammalian somatic cells
IARC	No component of this product present at levels greater than or equal to
Trice	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 exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional information	Repeated dose toxicity - male and female rat - oral - no observed adverse
T: (2.4 l)	effect level - 1000 mg/kg
Tris(2,4-ditert-butylphenyl) phosphite(3157	
LD50 - oral - male and female rat - Acute Toxicity	> 6000 mg/kg
LD50 - dermal - male and female rat	> 2000 mg/kg
Skin irritation - rabbit	No skin irritation / 24 h
Eye irritation- rabbit	No eye irritation / 30 s
Respiratory or skin sensitization - guinea	Does not cause skin sensitization
pig	N
Germ cell mutagenicity -Ames test (micronucleus test) - male and femae hamster	Negative
Carcinogenicity - oral - male and female rat	No adverse effect has been observed in chronic toxicity tests
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carconogen by OSHA
Reproductive toxicity	Not data available
- production of the state of th	



Developmental toxicity - oral - rabbit	No adverse effect has been observed in chronic toxicity tests
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Additional information	Repeated dose toxicity - rat - male and female - oral - No observed
	adverse effect level - >/ 1000 mg/kg
Additional information	No adverse effect has been observed in chronic toxicity tests

# 12. ECOLOGICAL INFORMATION

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	> 100 mg/l 3 h
- IC50 - Sludge Treatment	· · · · · · · · · · · · · · · ·
Persistence and degradability -	0.5 - 1% - not biodegradable
biodegradability - aerobic - exposure time:	,
44 d	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT & vPvB	not available/not required
Other adverse effects	An environmental hazard cannot be excluded in the event of
	unprofessional handling or disposal. Harmful to aquatic life with long
	lasting effects
Aluminum(7429-90-5)	
Ecotoxicity	Ecological injuries are not known or expected under normal use.
Aquatic toxicity - aluminum - LC50 -	0.16 mg/L / 96 h
rainbow trout	
Aquatic toxicity - silicon dioxide - IC50 -	440 mg/L / 72 h
algae	···· ··· ··· ·· · · · · · · · · · · ·
Aquatic toxicity - silicon dioxide - EC50 -	7600 mg/L / 48 h
daphnia	
Aquatic toxicity - silicon dioxide - LC50 -	5000 mg/L / 96 h
fish	3, ,
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion,
	photochemical ozone creation potential, endocrine disruption, global
	warming potential) are expected from this component.
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
Barium Sulfate(7727-43-7)	,
Toxicity	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable in
i crosscence and degradability	inorganic substances
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Carbon Black(1333-86-4)	1 - 1-2- m.
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
EC50 Toxicity to daphnia and other aquatic	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline
invertebrates	202)
EC50 Toxicity to algae	Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test
Lesso roxidity to digae	Guideline 201)
Persistence and degradability	No data available
r croistence and degradability	Tito data arallable



Dianagumulativa natantial	No data available
Bioaccumulative potential  Mobility in soil	No data available  No data available
PBT and vPvB assessment	Not available/not required
E-Caprolactam(105-60-2)	020 2020 mg/L 40 h
Toxicity to daphnia and other aquatic	828 - 2920 mg/l - 48 h
invertebrates - EC50 - Daphnia magna	
(water flea)	4220 4000 ··· - // 72 h
Toxicity to algae - EC50 - green algae	4320 - 4800 mg/l - 72 h
Persistence 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.
Pentaerythritol tetrakis(6683-19-8)	
Toxicity to fish - static LC50 - zebra fish	> 100 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 86 mg/L / 24 h
invertebrates - immobilization EC50 -	
daphnia magna (water flea)	
Toxicity to algae - static EC50 -	> 100 mg/L / 72 h
Scenedesmus subspicatus	
Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
IC50 - sludge treatment	
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
Other adverse effects	No data available
Phthalocyanine Blue(147-14-8)	
Toxicity to fish - mortality LC50 - zebra fish	> 100 mg/L / 96 h
Toxicity to fish - mortality LC50 - carp	> 100 mg/L / 96 h
Toxicity to daphnia and other aquatic	> 500 mg/L / 48 h
invertebrates - immobilization EC50 -	<b>5.</b> , .
Daphnia magna (water flea)	
Toxicity to algae - static EC50 - green	> 100 mg/L / 72 h
algae	
Toxicity to bacteria - respiration inhibition -	> 10000 mg/L / 3h
EC50 - sludge treatment	<i>31 - 1 - ·</i> ··
Persistence and degradability -	5% - not biodegradable - exposure time: 28 d
biodegradability - aerobic	2.1 2.000g. uddalo onposal o silioi 20 u
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Tris(2,4-ditert-butylphenyl) phosphite(3157)	
Toxicity to fish - static LCO - zebra fish	100 mg/L / 96 h
Toxicity to daphnia and other aquatic	510 mg/L / 24 h
· · · · · · · · · · · · · · · · · · ·	J10 IIIg/L / 24 II
invertebrates - static EC50 - Daphnia magna	
Toxicity to algae - static EC50 -	> 75 mg/L / 72 h
Scenedesmus subspicatus	//Jilig/L//ZII
	> 100 mg/L / 2 h
Toxicity to bacteria - respiration inhibition	> 100 mg/L / 3 h
IC50 - sludge treatment	6% - not readily biodegradable - exposure: 28 d
Persistence and degradability -	1 070 - Hot reduity blodegradable - exposure: 28 d
biodegradability - aerobic	No data available
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: 8/27/2018 REFERENCE: BK26-T375

### 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:** 8/27/2018 **REFERENCE:** BK26-T375

# 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
Carbon Black	1333-86-4
Aluminum	7429-90-5

SARA 313: This Product Contains Aluminum Powder (CAS 7429-90-5)

# **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#
~Carbon Black	1333-86-4

# National Regulations Key

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

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



# ARDINAL SAFETY DATA SHEET

**ISSUED:** 8/27/2018 **REFERENCE:** BK26-T375

#### **STATE REGULATIONS CALIFORNIA PROPOSITION 65**

This product contains:	Chemical CAS#
*Carbon Black	1333-86-4

# **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>.

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

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

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

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

For more information visit WWWPROP65.CA.GOV.

# **Massachusetts Right to Know**

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Carbon Black	1333-86-4
Aluminum	7429-90-5
E-Caprolactam	105-60-2
Amorphous Silica	112926-00-8

### Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Carbon Black	1333-86-4
Aluminum	7429-90-5
E-Caprolactam	105-60-2
Pentaerythritol tetrakis	6683-19-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Amorphous Silica	112926-00-8

# **New Jersey Right to Know**

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
1,3,5-Triglycidyl Isocyanurate	2451-62-9
Carbon Black	1333-86-4
Aluminum	7429-90-5
E-Caprolactam	105-60-2
Pentaerythritol tetrakis	6683-19-8
Phthalocyanine Blue	147-14-8
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
Amorphous Silica	112926-00-8



# RDINAL SAFETY DATA SHEET

**ISSUED:** 8/27/2018 **REFERENCE:** BK26-T375

# **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

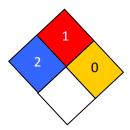
# **VOC CONTENT:**

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



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