

## T241-BK59 BLACK

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** T241-BK59 BLACK

**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

### 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:** 8/22/2018 **REFERENCE:** BK59-T241

advice/attention. Wash contaminated clothing before reuse. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

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

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

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

#### 5. FIRE FIGHTING MEASURES

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

UNSUITABLE EXTINGUISHING MEDIA: Do not use heavy water stream.

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

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

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

### **6. ACCIDENTAL RELEASE MEASURES**

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

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

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

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

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

## 7. HANDLING AND STORAGE

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

Hygiene measures: Wash Skin thoroughly after handling.

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

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight.



#### 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.05 mg/m3 8 hours	
Amorphous Pyrogenic Silica(112945-52-5)			
USA OSHA	USA OSHA TWA (OEL Table Z-3)	80 mg/m3 3/%SiO2	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
Amorphous Silica(112926-00-8)			
USA OSHA	USA OSHA TWA (Table Z-1)	6 mg/m3	
USA OSHA	USA OSHA TWA (Tabla Z-3)	20 Million particals per cubic foot.	
USA NIOSH	USA NIOSH TWA (REL)	6 mg/m3	
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	TWA (Time Weighted Average)	3.5 mg/m3 8 hours	
Limit)			
NIOSH REL (Recommended Exposure	TWA (Time Weighted Average)	0.1mg of PAHs/cm3 10 hours	
Limit )	, , , , , , , , , , , , , , , , , , , ,		
Crystalline Silica(14808-60-7)			
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	0.025 mg/m3 8 hours	
Limestone(1317-65-3)			
ACGIH	Not Applicable	Not Applicable	
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hours	
OSHA PEL (Permissible Exposure Limit	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
		hours	
NIOSH REL (Recommende Exposure	TWA (Time Weighted Average)	15 mg/m3 (Total Dust) 8 hour	
LImit)			
NIOSH REL (Recommende Exposure	TWA (Time Weighted Average)	5 mg/m3 (Respirable Fraction) 8	
LImit)		hours	

#### 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	:	1.6536
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

1.2 F Tri-b-id-l I(24F1 (2.0)	
1,3,5-Triglycidyl Isocyanurate(2451-62-9)	100 200 mg/kg
Acute toxicity - LD50 - oral - rat  Acute toxicity - LC50 - inhalation - rat -	100 - 200 mg/kg   > 650 mg/m3
male - 4 h	> 650 mg/m3
Acute toxicity - LD50 - Dermal - rat- male	> 2000 mg/kg
& female	2000 Hig/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	I hay cause sensitization by skill contact
Germ cell mutagenicity	In vivo tests showed mutagenic effects
Germ cell mutagenicity - AMES test - S.	Positive
typhimurium	1 ositive
Germ cell mutagenicity - AMES test -	Positive
mouse - male	1.00.0.70
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	N. 1
Specific target organ toxicity - repeated	No data available
exposure	No dele confide
Aspiration hazard Additional information	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
	proportios have not been theroughly investigated
Amorphous Pyrogenic Silica(112945-52-5)	properties have not been thoroughly investigated
Amorphous Pyrogenic Silica(112945-52-5)  Acute toxicity - Inhalation	
Acute toxicity - Inhalation	No data available
Acute toxicity - Inhalation Acute toxicity - Dermal	No data available No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation	No data available No data available No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation	No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs	No data available No data available No data available No data available Body fluid assay
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs	No data available No data available No data available No data available Body fluid assay
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human No component of this product present at levels greater than or equal to
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as known or anticipated carcinogen
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH	No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as known or anticipated carcinogen No component of this product present at levels greater than or equal to
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No data available No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH NTP OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No data available No data available No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No data available No data available No data available
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available No data available To the best of our knowledge, the chemical, physical, and toxicological
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH NTP OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH NTP OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available No data available To the best of our knowledge, the chemical, physical, and toxicological
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information  Additional information Amorphous Silica(112926-00-8)	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Stomach irregularities based on human evidence
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH NTP OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information  Additional information  Amorphous Silica(112926-00-8) Acute toxicity	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Stomach irregularities based on human evidence
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information  Additional information  Amorphous Silica(112926-00-8) Acute toxicity: Inhalation	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Stomach irregularities based on human evidence
Acute toxicity - Inhalation Acute toxicity - Dermal Skin irritation Respiratory or skin sensation Germ cell mutagenicity - rat - lungs Germ cell mutagenicity - rat Carcinogenicity - Rat - Inhalation  IARC ACGIH NTP OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information  Additional information  Amorphous Silica(112926-00-8) Acute toxicity	No data available No data available No data available No data available Body fluid assay Unscheduled DNA synthesis Tumorigenic: Carcinogenic by RTECS criteria. Lungs, thorax, or respiration: tumors Not classifiable as to its carcinogenicity to human 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 as 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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA No data available No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Stomach irregularities based on human evidence



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
ACGIN	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
INIF	0.1% is identified as a known or anticipated carcinogen by NTP
OCHA	no component of this product present at levels greater than or equal to
OSHA	
Book and the state of the	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	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)	Stomach irregularities based on human evidence
	No data accellate
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 - mouse -	No reported data
micronucleus test	·
Carcinogenicity - rat - intrapleural -	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or
tumorigenic	Respiration: Tumors
IARC	No component of this product present at levels greater than or equal to
27 11 (3	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
ACGITI	0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTD	
NTP	No component of this product present at levels greater than or equal to
00114	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	Prolonged inhalation of dust may cause baritosis, a benign
, additional information	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
Additional information	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)
Eye damage/irritation - Rabbit	No eye irritation, (OECD Test Guideline 405)
Respiratory/skin sensitization - Guinea pig	Did not cause sensitization on laboratory animals, (OECD Test Guideline
Respiratory, skin sensitization Guinea pig	406)
Germ cell mutagenicity	Ames test, S. typhimurium, negative
	Lanes test, S. typininunum, Negative
Hamster - Ovary  DNA repair - Rat - Female	Negative Negative



Carcinogenicity - Rat - Inhalation	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or
	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
	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.
Crystalline Silica(14808-60-7)	and toxicological properties have not been throughly investigated.
Acute Inhalation toxicity	no data available
Acute Dermal toxicity  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	no data available
exposure	
Specific target organ toxicity - repeated	may cause damage to organs through prolonged or repeated exposure
exposure - inhalation	
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)	I ===
Draize test, rabbit, eye	750 ug/24H severe
Draize test, rabbit, skin	500 mg/24H moderate
Oral, rat: LD50	6450 mg/kg
ACGIH, IARC, NTP, CA Prop 65	Not listed
Epidemiology	No information available
Teratogenicity	No information available
Reproductive effects	No information available
Mutagenicity	No information available
Neurotoxicity	No information available



## 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)	3.
Toxicity to daphnia and other aquatic	> 100 mg/l - 24 h
invertebrates - Immobilization - EC50 -	
daphnia magna (water flea)	20 20 // 72  -
Toxicity to algae - growth inhibition - EC50 - Desmodesmus subspicatus	29 - 30 mg/l - 72 h
Toxicity to bacteria - Respiration inhibition	> 100 mg/l 3 h
- IC50 - Sludge Treatment	3,
Persistence and degradability -	0.5 - 1% - not biodegradable
biodegradability - aerobic - exposure time:	
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
Amorphous Pyrogenic Silica(112945-52-5)	lasting effects
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available  No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Amorphous Silica(112926-00-8)	not available/not required
Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Barium Sulfate(7727-43-7)	
Toxicity	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable in
	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)	
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
EC50 Toxicity to daphnia and other aquatic invertebrates	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202)
EC50 Toxicity to algae	Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test
, ,	Guideline 201)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	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	not available/not required
Limestone(1317-65-3)	No data available
Ecotoxicity	No data available
Environmental Physical	No information reported
Physical	No information available

#### 13. DISPOSAL CONSIDERATIONS

#### **WASTE TREATMENT METHODS**

**GENERAL INFORMATION:** No data available.

**DISPOSAL METHOD:** Dispose of in accordance with Local, State, Regional, National and International Regulations.

Ecology - waste materials: Avoid release to the environment.

## 14. TRANSPORT INFORMATION

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

**USDOT GROUND** 

**DOT (DEPARTMENT OF TRANSPORTATION)** 

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

**HAZARDS CLASS:** None

UN/NA NUMBER: Not Applicable

**PACKING GROUP:** None

EMERGENCY RESPONSE GUIDE (ERG): Not Applicable

**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:** 8/22/2018 **REFERENCE:** BK59-T241

#### 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

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#
~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:** 8/22/2018 **REFERENCE:** BK59-T241

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

This product contains:	Chemical CAS#
*Carbon Black	1333-86-4
*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
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
Crystalline Silica	14808-60-7

### Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Limestone	1317-65-3
Carbon Black	1333-86-4
Amorphous Pyrogenic Silica	112945-52-5
Amorphous Silica	112926-00-8
Crystalline Silica	14808-60-7
Butyltriphenylphoshonium Chloride	13371-17-0



## **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
Carbon Black	1333-86-4
Amorphous Pyrogenic Silica	112945-52-5
Amorphous Silica	112926-00-8
Crystalline Silica	14808-60-7
Butyltriphenylphoshonium Chloride	13371-17-0



# RDINAL SAFETY DATA SHEET

**ISSUED:** 8/22/2018 **REFERENCE:** BK59-T241

### **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

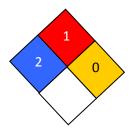
## **VOC CONTENT:**

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.