

### H304-GR312 ANTI-GASSING PRIMER

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** H304-GR312 ANTI-GASSING PRIMER GRAY

**PRODUCT USE: Industrial Powder Coating** 

**MANUFACTURER** 24 HR. EMERGENCY TELEPHONE NUMBER

> CHEMTREC (US Transportation): (800)424-9300 **CHEMTREC (International Transportation)**: (202)483-7616

WEB: WWW.CARDINALPAINT.COM

## 2. HAZARDS IDENTIFICATION

Cardinal Paint and Powder

1329 Potrero Ave S. El Monte, CA, 91733

626 444-9274

#### **PICTOGRAMS:**



**SIGNAL WORD: WARNING** 

#### **HAZARD STATEMENTS:**

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H317 May cause an allergic skin reaction.

### PRECAUTIONARY STATEMENTS:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Titanium Dioxide	15% - 20%	13463-67-7
Carbon Black	0.50% - 0.99%	1333-86-4
Aluminum Oxide	<1%	1344-28-1

### 4. FIRST AID MEASURES

#### Description of first aid measures.

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

SKIN CONTACT: Remove affected clothing and wash all exposed area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing before reuse. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.



## **SAFETY DATA SHEET**

ISSUED: 8/22/2018 REFERENCE: GR312-H304

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

**INHALATION:** Allow victim to breathe fresh air. Allow victim to rest. Remove to fresh air and keep at rest in a position comfortable to breath. 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

2-Mercaptobenzothiazole(149-30-4)		
USA WEEL	(WEEL) TWA	5 mg/m3
Aluminum Oxide(1344-28-1)		
USA OSHA	(OEL) Table Z-1, TWA	15 mg/m3
USA ACGIH	(TLV) TWA	1 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
Butyl Acrylate(141-32-2)		
USA ACGIH	(TLV) TWA	2 ppm
USA NIOSH	(REL) TWA	10 ppm, 55 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 )		
Prop-2-enoic acid(79-10-7)		
ACGIH	TWA ( Time Weighted Average)	2 ppm
ACGIH	TWA (Time Weighted Average)	5.9 mg/m3
Styrene(100-42-5)		
USA NIOSH	USA NIOSH TWA (REL)	50 ppm, 215 mg/m3
USA NIOSH	USA NIOSH ST (REL)	100 ppm, 425 mg/m3
USA OSHA	USA OSHA TWA (OEL) Table Z-2	100 ppm
USA ACGIH	USA ACGIH STEL (TLV)	40 ppm
Titanium Dioxide(13463-67-7)		
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	10 mg/m3 8 hours
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	15 mg/m3 8 hours

### 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	:	1.6312
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:** Strong acids. Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Fume. Carbon monoxide. Carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

2-Mercaptobenzothiazole(149-30-4)	
Acute toxicity - LD50 - oral - male and	3800 mg/kg
femal rat	3000 Hig/kg
Acute toxicity - LC50 - inhalation - rat	> 1270 mg/m3
Acute toxicity - LD50 - dermal - male and female rabbit	> 7940 mg/kg
Skin irritation - rabbit	No skin irritation / 24 h
Eye irritation - rabbit	No eye irritation / 24 h
Respiratory or skin sensitisation - Buehler	May cause allergic skin reaction
test - guinea pig	Hay cause unergic skill reaction
Respiratory or skin sensitisation - Maximisation test - guinea pig	May cause allergic skin reaction
Germ cell mutagenicity - Ames test - S.	Negative
typhimurium  Germ cell mutagenicity - male and female	Negative
mouse	Negative
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 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 - lowest observed adverse effect level - 2500 mg/kg
Additional information	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
Aluminum Oxide(1344-28-1)	properties that a second according to the second accor
Acute toxicity - LD50 - oral - rat	> 10,000 mg/kg
Acute toxicity - LC50 - inhalation - rat	> 2.6 mg/L / 4 h
Acute toxicity - dermal	No data available
Skin irritation - rabbit	No skin irritation
Eye irritation - rabbit	No eye irritation
Respiratory or skin sensitisation -	DId not cause sensitisation on laboratory animals
maximisation test - guinea pig	
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicty based on its IARC, ACGIH, NTP, or EPA classification
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 IAPC
NTP	by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
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	Cough, chest pain, difficulty in breathing, gastrointestinal disturbance
Addittional information	Liver irregularities based on human evidence
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 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	No data available
Respiratory or skin sensation	No data available
Germ cell mutagenicity - mouse - micronucleus test	No reported data
Carcinogenicity - rat - intrapleural - tumorigenic	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or
	Respiration: Tumors
IARC	No component of this product present at levels greater than or equal to
	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
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
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  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
IARC 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
IARC ACGIH NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to
IARC  ACGIH  NTP  OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
IARC  ACGIH  NTP  OSHA  Reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available
IARC  ACGIH  NTP  OSHA  Reproductive toxicity  Specific target organ toxicity - single	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available
IARC  ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available  No data available
IARC  ACGIH  NTP  OSHA  Reproductive toxicity  Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available  No data available  No data available  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
IARC  ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available  No data available  No data available  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.
IARC  ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available  No data available  No data available  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
IARC  ACGIH  NTP  OSHA  Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Additional information	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA  No data available  No data available  No data available  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.



LC50 Inhalation - Rat - Inhalation	2730 ppm, 4 h, Remarks: Sense Organs and Special Senses (Nose, Eye,
	Ear, and Taste):Olfaction:Other changes. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Lungs, Thorax, or
	Respiration: Dyspnea.
LD50 Dermal - Rabbit	1.796 mg/kg, Rabbit
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation  Germ cell mutagenicity	No data available  No data available
Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans
Caremogerially	(Butyl acrylate) IARC: No component of this product present at levels
	greater than or equal to 0.1% is identified as probable, possible or
	confirmed human carcinogen by IARC. NTP: No component of this product
	present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 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. 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.
exposure	
Specific target organ toxicity - repeated	No data available
exposure Aspiration hazard	No data available
Additional Information	RTECS: UD3150000 To the best of our knowledge, the chemical, physical,
	and toxicological properties have not been thoroughly investigated.,
	Cough, Shortness of breath, Headache, Nausea, Vomiting Stomach -
C	Irregularities - Based on Human Evidence (Mequinol).
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 406)
Germ cell mutagenicity	Ames test, S. typhimurium, 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,
TARC	or EPA classification. Limited evidence of carcinogenicity in animal studies.
IARC NTP	2B - Group 2B: Possibly carcinogenic to humans (carbon black)  No component of this product present at levels greater than or equal
INTI	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 Organ toxicity	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	RTECS: FF5800000 To the best of our knowledge, the chemical , physical,
	and toxicological properties have not been throughly investigated.
Pentaerythritol tetrakis(6683-19-8)	> 5000 mg/kg
Acute toxicity - LD50 - oral - male rat  Acute toxicity - LC50 - inahalation - male	> 5000 mg/kg > 1.95 mg/l / 4h
and female rat	
Acute toxicity - LD50 - dermal - male and	> 3160 mg/kg
female rabbit	
Acute toxicity - LD50 - intraperitoneal - rat	> 1000 mg/kg
Skin corrosion - rabbit Eye irritation - rabbit	No skin irritation - 24 h
Lye ifficacion - fabbic	No eye irritation



Respiratory or skin sesnsitization - guinea pig	Does not cause skin sensitization
Germ cell mutagenicity - Ames test - S. typhimurium	Negative
Mutagenicity - micronucleus test - male and female hamster	Negative
IARC carcinogenicity	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
Prop-2-enoic acid(79-10-7)	The data distillable
LD50 Oral - Mouse	830mg/m3
	830mg/m3
LC50 Inhalation - Rat	>5,100 mg/m3 - 4h
Dermal	No Data Available
Skin Corrosion/Irritation	Skin - Rabbit Result Severe Skin Irritation - 24h
Serious Eye Damage/Eye Irritation	Eyes - Rabbit Result - Severe Eye Irritation
Respiratory or Skin Irritation	Guinea Pig - Did not cause sensitization on laboratory animals
Germ Cel Mutagenicity	Laboratory experiments have shown mutagenic effects
Carcinogenicity	This product is or contains a component that is not classifiable as to its
	carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC
	Group 3: Not classifiable as to its carcinogenicity to humans (Acrylic Acid)
	NTO: no component of this product present at levels greater than or equal
	to 0.1% is identified as a known or anticipated carcinogen
Reproductive Toxicity	No Data Available
Specific Target Organ Toxicity - Single Exposur	Inhalation - May cause respiratory irritation - Respiratory system
Specific Target Organ Toxicity-Repeated Exposure	No Data Available
Aspiration Hazard	No Data Available
Additional Information	RTECS: AS4375000 burning sensation. Cough, wheezing, laryngitis.
	Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronci, pneumonia, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver irregularities - based on Human Evidence. Stomach irregularities - based on human evidence
Styrene(100-42-5)	
Acute toxicity - LD50 - oral - rat	> 6000 mg/kg
Acute toxicity - LC50 - inhalation - rat	12000 mg/m3 / 4 h
Acute toxicity - LD50 - dermal - male and female rat	> 2000 mg/kg
Skin irritation - rabbit	Skin irritation
Eye irritation - rabbit	Eye irritation / 24 h
Respiratory or skin sensitization -	Does not cause skin sensitization.
maximisation test - guinea pig	
Germ cell mutagenicity	Laboratory experiments haqve shown mutagenic effects.
Carcinogenicity	The product is or contains a component that has been reported to be possible carcinogenic based on its IARC, NTP or EPA classification.
IARC	Group 2B - possible carcinogenic to humans
NTP	Reasonably anticipated to be carcinogenic to humans.
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	Suspected of damaging the unborn child. Suspected human reproductive toxicant.
Specific target organ toxicity - single exposure	No data available



specific target organ toxicity - repeated	Causes damage to organs through prolonged or repeated exposure.
exposure	
Aspiration hazard	No data available
Additional information	Dermatitis, central nervous system depression, nausea, dizziness,
/ tagteronal morning.com	headache. To the best of our knowledge, the chemical, physical, and
	toxicolgical properties have not been thoroughly investigated.
Additional information	Endocrine system
Titanium Dioxide(13463-67-7)	Lildocinie system
	. 10000
Acute toxicity - LD50 - oral - rat	> 10000 mg/kg
Acute toxicity - inhalation	No data available
Acute toxicity - LD50 - dermal - rabbit	> 10000 mg/kg
Skin irritation - human	Mild skin irritation - 3 h
Eye irritation - rabbit	No eye irritation
Respiration or skin sensitisation	Will not occur
Germ cell mutagenicity - hamster - ovary -	No results available
micronucleus test	
Germ cell mutagenicity - hamster - lungs	DNA inhibition
Germ cell mutagenicity - hamster - ovary -	No results available
sister chromatid exchange	
Germ cell mutagenicity - mouse -	No results available
micronucleus test	140 results available
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
NTD	by IARC
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	To the best of our knowledge, the chemical, physical, and toxicological
/ taattieria: iiiieriiiatierii	properties have not been thoroughly investigated
Tris(2,4-ditert-butylphenyl) phosphite(3157)	
LD50 - oral - male and female rat - Acute	> 6000 mg/kg
Toxicity	> 0000 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	
Germ cell mutagenicity -Ames test	Negative
(micronucleus test) - male and femae	
hamster	
Carcinogenicity - oral - male and female	No adverse effect has been observed in chronic toxicity tests
rat	
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
OSIA	0.1% is identified as a carcinogen or potential carconogen by OSHA
Reproductive toxicity	
Reproductive toxicity	Not data available
L B	
Developmental toxicity - oral - rabbit	No adverse effect has been observed in chronic toxicity tests
Specific target organ toxicity - single	No adverse effect has been observed in chronic toxicity tests  No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - single	
Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure	No data available  No data available
Specific target organ toxicity - single exposure Specific target organ toxicity - repeated	No data available  No data available  Repeated dose toxicity - rat - male and female - oral - No observed
Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure	No data available  No data available  Repeated dose toxicity - rat - male and female - oral - No observed
Specific target organ toxicity - single exposure  Specific target organ toxicity - repeated exposure	No data available  No data available



Zinc Stearate(557-05-1)	
Acute toxicity - LD50 - oral - rat	> 10000 mg/kg
Acute toxicity - dermal	No data available
Skin irritation	No data available
Eye irritation	No data available
Respiratory or skin sensitization	No data available
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
NTP	No component of this product present at levels greater than or equal to
	0.1% is identified as a known or anticipated carcinogen by NTP
OSHA	No component of this product present at levels greater than or equal to
	0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive toxicity	No data available
Specific target organ toxicity - single	No data available
exposure	
Specific target organ toxicity - repeated	No data available
exposure	
Aspiration hazard	No data available
Additional information	Aspiration or inhalation may cause chemical pneumonitis., Lung irritation,
	chest pain, pulmonary edema
Aditional information	Stomach irregularities based on human evidence

## 12. ECOLOGICAL INFORMATION

2-Mercaptobenzothiazole(149-30-4)	
Toxicity to fish - flow-through test - LC50 -	0.73 mg/L / 96 h
rainbow trout	0.73 mg/L/ 30 m
Toxicity to daphnia and other aquatic	0.71 mg/L / 48 h
invertebrates - immobilization EC50 -	3, ,
Daphnia magna (water flea)	
Toxicity to algae - growth inhibition - EC50	0.5 mg/L - 72 h
- green algae	-
Persistence and degradability -	1% - not readily biodegradable - exposure time: 28 d
biodegradability - biotic/aerobic	
Bioaccumulative potential -	0.1 mg/L / 42 d
bioaccumulation - carp	
Bioaccumulative potential -	< 0.8
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
	unprofessional handling or disposal. Very toxic to aquatic life with long
	lasting effects.
Aluminum Oxide(1344-28-1)	
Toxicity	No toxicity at the limit of solubility
Persisitence and degradability	The methods for determining biodegradability are not applicable to
Dia agrupo dativa patantial	inorganic substances  Does not bioaccumulate
Bioaccumulative potential  Mobility in soil	No data available
PBT and vPvB	
Other adverse effects	Not available/not required  No data available.
	NO data available.
Amorphous Silica(112926-00-8)	no data available
Toxicity Persistence and degradability	no data available 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)	not available/not required
Toxicity	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable in
l'ersistence and degradability	inorganic substances
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
I DI GIIG VI VD	not aranabily not required



Butyl Acrylato(141 22 2)	
Butyl Acrylate(141-32-2) LC50 - Cyprinodon variegatus - Toxicity to	2.1 mg/l - 96 h, Cyprinodon variegatus (sheepshead minnow), (OECD
fish	Test Guideline 203)
EC50 - Daphnia magna - Toxicity to daphnia and other aquatic invertebrates	1.3 mg/l - 48 h, Daphnia magna (Water flea), (OECD Test Guideline 202)
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 80 - 90 % - Readily biodegradable (OECD Test Guideline 310)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Avoid release to the environment.
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
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 IC50 - sludge treatment	> 100 mg/L / 3 h
Persistence and degradability - biodegradability - aerobic	5% - not biodegradable : exposure time - 28 d
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	Not available/not required
Other adverse effects	No data available
Prop-2-enoic acid(79-10-7)	
LC50 Toxicity to Fish - Oncorhynchus mykiss	27 mg/l 96 h Oncorhynchuss mykiss (Rainbow trout)
EC50 Toxicity to Daphnia and other aquatic invertebrates	95 mg/l - 48 h Daphnia magna ( Water Flea)
EC 50 Toxicity to algea - Desmodemus subspicatus	0.04 mg/l - 96h Desmodemus subspicatus (green algea)
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 28 d Result 100% - Readiliy Biodegradable
Mobility in Soil	No Data Available
Bioaccumulative Potential	No Data Available
Result of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	Other adverse effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life
Styrene(100-42-5)	, 2.2 2. ap. areasana namaning at anapasan very conte to aquatic inc
Toxicity to fish - NOEC - fathead minnow	4 mg/L / 96 h
Toxicity to fish - LC50 - fathead minnow	32 mg/L / 96 h
Toxicity to fish - LOEC - fathead minnow	7.6 mg/L / 96 h
Toxicity to daphnia and other aquatic	4.7 mg/L / 48 h
invertebrates - EC50 - water flea	1.4 mg/L / 72 h
Toxicity to algae - IC50 - green algae Persistence and degradability - aerobic	1.4 mg/L / 72 h 60% - readily biodegradable - 28 d
Bioaccumulative potential	No data available
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
3.1.2.2.3.3.3.2.3.3.3.3.3.3.3.3.3.3.3.3.	unprofessional handling or disposal. Toxic to aquatic life.



Titanium Dioxide(13463-67-7)		
Toxicity to fish - LC50 - other fish	> 1000 mg/L / 96 h	
Toxicity to daphnia and other aquatic invertebrates - EC50 - Dapphnia magna (water flea)	> 1000 mg/L / 48 h	
Toxicity to daphnia and other aquatic invertebrates - EC0 - Daphnia magna (water flea)	1000 mg/L / 48 h	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
PBT and vPbV	Not available/not required	
Other adverse effects	No data available	
Tris(2,4-ditert-butylphenyl) phosphite(31570	)-04-4)	
Toxicity to fish - static LC0 - zebra fish	100 mg/L / 96 h	
Toxicity to daphnia and other aquatic invertebrates - static EC50 - Daphnia magna	510 mg/L / 24 h	
Toxicity to algae - static EC50 - Scenedesmus subspicatus	> 75 mg/L / 72 h	
Toxicity to bacteria - respiration inhibition IC50 - sludge treatment	> 100 mg/L / 3 h	
Persistence and degradability - biodegradability - aerobic	6% - not readily biodegradable - exposure: 28 d	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
PBT and vPvB	not available/not required	
Zinc Stearate(557-05-1)		
Toxicity	No data available	
Persistence and degradability	50% - readily biodegradable	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
PBT and vPvB	Not available/not required	
Other adverse effects	No data 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

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: 8/22/2018 REFERENCE: GR312-H304

#### 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#	
Titanium Dioxide	13463-67-7	
Carbon Black	1333-86-4	
Aluminum Oxide	1344-28-1	

SARA 313: No SARA 313 chemicals are present

#### **CLEAN AIR ACT:**

#### INTERNATIONAL REGULATIONS

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

Carc. 2 H351 Suspected of causing cancer

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure

#### **NATIONAL REGULATIONS**

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



# RDINAL SAFETY DATA SHEET

ISSUED: 8/22/2018 REFERENCE: GR312-H304

# STATE REGULATIONS CALIFORNIA PROPOSITION 65

This product contains:	Chemical CAS#
*Titanium Dioxide	13463-67-7
*Carbon Black	1333-86-4
*2-Mercaptobenzothiazole	149-30-4
*Styrene	100-42-5

### **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>.

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

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

For more information visit WWWPROP65.CA.GOV.

### **Massachusetts Right to Know**

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Aluminum Oxide	1344-28-1
Amorphous Silica	112926-00-8
Zinc Stearate	557-05-1
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5

### Pennsylvania Right to Know

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Aluminum Oxide	1344-28-1
Amorphous Silica	112926-00-8
Pentaerythritol tetrakis	6683-19-8
Zinc Stearate	557-05-1
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5



#### **New Jersey Right to Know**

This product contains	Chemical CAS#
Barium Sulfate	7727-43-7
Titanium Dioxide	13463-67-7
Carbon Black	1333-86-4
Aluminum Oxide	1344-28-1
Amorphous Silica	112926-00-8
Pentaerythritol tetrakis	6683-19-8
Zinc Stearate	557-05-1
Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4
2-Mercaptobenzothiazole	149-30-4
Prop-2-enoic acid	79-10-7
Butyl Acrylate	141-32-2
Styrene	100-42-5



# RDINAL SAFETY DATA SHEET

ISSUED: 8/22/2018 REFERENCE: GR312-H304

#### **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

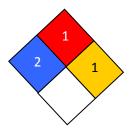
### **VOC CONTENT:**

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.