

**H302-BK46 BLACK****1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** H302-BK46 BLACK  
**PRODUCT USE:** Industrial Powder Coating

**MANUFACTURER**

Cardinal Paint and Powder  
1329 Potrero Ave  
S. El Monte, CA, 91733  
626 444-9274

**24 HR. EMERGENCY TELEPHONE NUMBER**

**CHEMTREC (US Transportation):** (800)424-9300  
**CHEMTREC (International Transportation):** (202)483-7616  
**WEB:** WWW.CARDINALPAINT.COM

**2. HAZARDS IDENTIFICATION****PICTOGRAMS :**

**SIGNAL WORD :** WARNING

**HAZARD STATEMENTS :**

H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

**PRECAUTIONARY STATEMENTS :**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Weight %	CAS Number
Carbon Black	1% - 5%	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 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 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.

**ENVIROMENTAL 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**

Carbon Black(1333-86-4)		
ACGIH TLV (Threshold Limit Value)	TWA (Time Weighted Average)	3 mg/m <sup>3</sup> 8 hours
NIOSH REL (Recommended Exposure)	TWA (Time Weighted Average)	0.1mg of PAHs/cm <sup>3</sup> 10 hours



Limit )		
NIOSH REL (Recommended Exposure Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours
OSHA PEL (Permissible Exposure Limit)	TWA (Time Weighted Average)	3.5 mg/m3 8 hours
Prop-2-enoic acid(79-10-7)		
ACGIH	TWA ( Time Weighted Average)	2 ppm
ACGIH	TWA (Time Weighted Average)	5.9 mg/m3

**PERSONAL PROTECTIVE EQUIPMENT****RESPIRATORY PROTECTION :** Wear approved dust mask.**HAND PROTECTION :** Wear protective gloves.**EYE PROTECTION :** Chemical goggles or safety glasses.**SKIN AND BODY PROTECTION :** Wear suitable protective clothing.**WORK HYGIENIC PRACTICES:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	:	Solid
<b>Melting point</b>	:	55 - 90 deg C
<b>Flash point</b>	:	No data available.
<b>Lower explosion limit</b>	:	10 g/m <sup>3</sup>
<b>Upper explosion limit</b>	:	70 g/m <sup>3</sup>
<b>Density</b>	:	1.5640
<b>Solubility</b>	:	No data available.
<b>Autoignition temperature</b>	:	No data available.
<b>Decomposition temperature</b>	:	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)	
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
Acute toxicity - LC50 - inhalation - rat	> 1270 mg/m3
Acute toxicity - LD50 - dermal - male and female rabbit	> 7940 mg/kg
Acute toxicity - LD50 - oral - male and female rat	3800 mg/kg
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
Aspiration hazard	No data available
Eye irritation - rabbit	No eye irritation / 24 h
Germ cell mutagenicity - Ames test - S. typhimurium	Negative
Germ cell mutagenicity - male and female mouse	Negative



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
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
Respiratory or skin sensitisation - Buehler test - guinea pig	May cause allergic skin reaction
Respiratory or skin sensitisation - Maximisation test - guinea pig	May cause allergic skin reaction
Skin irritation - rabbit	No skin irritation / 24 h
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
<b>Amorphous Silica(112926-00-8)</b>	
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
Acute toxicity	no data available
Acute toxicity: Dermal	no data available
Acute toxicity: Inhalation	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
Aspiration hazard	no data available
Carcinogenicity: IARC: Group 3:	not classifiable as to its carcinogenicity to humans
Eye irritation	no data available
Germ cell mutagenicity	no data available
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
Respiratory or skin sensation	no data available
Skin irritation	no data available
Specific target organ toxicity - repeated exposure	no data available
Specific target organ toxicity - single exposure	no data available
<b>Barium Sulfate(7727-43-7)</b>	
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
Acute toxicity - Dermal	No data available
Acute toxicity - inhalation	No data available
Additional information	Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation., Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional information	Stomach irregularities - based on human evidence
Aspiration hazard	No data available
Carcinogenicity - rat - intrapleural - tumorigenic	Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors
Eye irritation	No data available
Germ cell mutagenicity - mouse - micronucleus test	No reported data
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
Respiratory or skin sensation	No data available
Skin irritation	No data available
Specific target organ toxicity - repeated exposure	No data available
Specific target organ toxicity - single exposure	No data available
<b>Carbon Black(1333-86-4)</b>	
Aspiration hazard	No data available
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.
DNA repair - Rat - Female	Negative
Eye damage/irritation - Rabbit	No eye irritation, (OECD Test Guideline 405)
Germ cell mutagenicity	Ames test, <i>S. typhimurium</i> , negative
Hamster - Ovary	Negative
IARC	2B - Group 2B: Possibly carcinogenic to humans (carbon black)
LD50 Dermal - Rabbit	> 3,000 mg/kg
LD50 Inhalation - Rat	No data available
LD50 Oral - Rat	> 8,000 mg/kg, male and female, (OECD Test Guideline 401)
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
Organ toxicity	Specific target organ toxicity - repeated exposure: No data available
Organ toxicity	Specific target organ toxicity - single exposure: No data available
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
Respiratory/skin sensitization - Guinea pig	Did not cause sensitization on laboratory animals, (OECD Test Guideline 406)
Skin corrosion/irritation	No skin irritation - 24 h, (OECD Test Guideline 404)
<b>Prop-2-enoic acid(79-10-7)</b>	
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 bronchi, 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
Aspiration Hazard	No Data Available
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
Dermal	No Data Available
Germ Cel Mutagenicity	Laboratory experiments have shown mutagenic effects
LC50 Inhalation - Rat	>5,100 mg/m3 - 4h
LD50 Oral - Mouse	830mg/m3
Reproductive Toxicity	No Data Available
Respiratory or Skin Irritation	Guinea Pig - Did not cause sensitization on laboratory animals
Serious Eye Damage/Eye Irritation	Eyes - Rabbit Result - Severe Eye Irritation
Skin Corrosion/Irritation	Skin - Rabbit Result Severe Skin Irritation - 24h
Specific Target Organ Toxicity - Single Exposur	Inhalation - May cause respiratory irritation - Respiratory system
Specific Target Organ Toxicity-Repeated Exposure	No Data Available

**12. ECOLOGICAL INFORMATION**

2-Mercaptobenzothiazole(149-30-4)



Bioaccumulative potential - bioaccumulation - carp	0.1 mg/L / 42 d
Bioaccumulative potential - Bioconcentration factor	< 0.8
Mobility in soil	No data available
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.
PBT and vPvB	Not available/not required
Persistence and degradability - biodegradability - biotic/aerobic	1% - not readily biodegradable - exposure time: 28 d
Toxicity to algae - growth inhibition - EC50 - green algae	0.5 mg/L - 72 h
Toxicity to daphnia and other aquatic invertebrates - immobilization EC50 - Daphnia magna (water flea)	0.71 mg/L / 48 h
Toxicity to fish - flow-through test - LC50 - rainbow trout	0.73 mg/L / 96 h
<b>Amorphous Silica(112926-00-8)</b>	
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB	not available/not required
Persistence and degradability	no data available
Toxicity	no data available
<b>Barium Sulfate(7727-43-7)</b>	
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB	not available/not required
Persistence and degradability	The methods for determining biodegradability are not applicable in inorganic substances
Toxicity	No data available
<b>Carbon Black(1333-86-4)</b>	
Bioaccumulative potential	No data available
EC50 Toxicity to algae	Desmodesmus subspicatus (green algae > 10,000 mg/l - 72 h (OECD Test Guideline 201)
EC50 Toxicity to daphnia and other aquatic invertebrates	Daphnia magna (Water flea) > 5600 mg/l - 24 h (OECD Test Guideline 202)
Mobility in soil	No data available
PBT and vPvB assessment	Not available/not required
Persistence and degradability	No data available
Toxicity to fish LC50	Danio rerio (zebra fish) >1000 mg/l - 96 h
<b>Prop-2-enoic acid(79-10-7)</b>	
Bioaccumulative Potential	No Data Available
EC 50 Toxicity to algae - Desmodemus subspicatus	0.04 mg/l - 96h Desmodemus subspicatus (green algea)
EC50 Toxicity to Daphnia and other aquatic invertebrates	95 mg/l - 48 h Daphnia magna ( Water Flea)
LC50 Toxicity to Fish - Oncorhynchus mykiss	27 mg/l 96 h Oncorhynchus mykiss (Rainbow trout)
Mobility in Soil	No Data Available
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
Persistence and degradability	Biodegradability Biotic/Aerobic - Exposure time 28 d Result 100% - Readily Biodegradable
Result of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**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 RESTRICTONS 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.

**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

<b>This product contains:</b>	<b>Chemical CAS#</b>
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) :**Carc. 2            H351 Suspected of causing cancer  
STOT RE 1        H372 Causes damage to organs through prolonged or repeated exposure**NATIONAL REGULATIONS**

<b>This product contains:</b>	<b>Chemical CAS#</b>
#Carbon Black	1333-86-4

**National Regulations Key**

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

**STATE REGULATIONS****CALIFORNIA PROPOSITION 65****California Proposition 65 Key**

\*This product contains (a) chemical (s) known to the State of California to cause cancer.

#This product contains (a) chemical (s) known to the State of California to be carcinogenic.

+This product contains (a) chemical (s) known to the State of California to cause birth defects or other reproductive harm.

**Massachusetts Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Barium Sulfate	7727-43-7





Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
Prop-2-enoic acid	79-10-7

**Pennsylvania Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Barium Sulfate	7727-43-7
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
2-Mercaptobenzothiazole	149-30-4
Prop-2-enoic acid	79-10-7

**New Jersey Right to Know**

<b>This product contains</b>	<b>Chemical CAS#</b>
Barium Sulfate	7727-43-7
Carbon Black	1333-86-4
Amorphous Silica	112926-00-8
2-Mercaptobenzothiazole	149-30-4
Prop-2-enoic acid	79-10-7



**16. OTHER INFORMATION**

**Other Product Information:**

% Volatile by Volume :	0.01	% Volatile by Weight :	0.00
% Solids by volume :	99.99	% Solids by Weight :	100.00

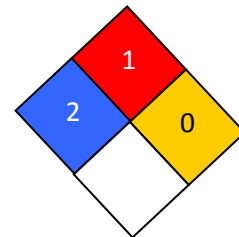
**VOC CONTENT:**

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

**HMIS RATING**

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

**NFPA CODES**



**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.