1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: E300-BK11 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:
- 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>0.50% - 0.99%</td>
<td>1333-86-4</td>
</tr>
</tbody>
</table>

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 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

<table>
<thead>
<tr>
<th>Amorphous Silica(112926-00-8)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA OSHA</td>
<td>USA OSHA TWA (Table Z-1)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>USA OSHA TWA (Tabla Z-3)</td>
<td>20 Million particals per cubic foot.</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>USA NIOSH TWA (REL)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Carbon Black(1333-86-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV (Threshold Limit Value)</td>
<td>TWA (Time Weighted Average)</td>
<td>3 mg/m³ 8 hours</td>
</tr>
<tr>
<td>OSHA PEL (Permissible Exposure Limit)</td>
<td>TWA (Time Weighted Average)</td>
<td>3.5 mg/m³ 8 hours</td>
</tr>
<tr>
<td>NIOSH REL (Recommended Exposure Limit)</td>
<td>TWA (Time Weighted Average)</td>
<td>3.5 mg/m³ 8 hours</td>
</tr>
<tr>
<td>NIOSH REL (Recommended Exposure Limit)</td>
<td>TWA (Time Weighted Average)</td>
<td>0.1 mg of PAHs/cm³ 10 hours</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>55 - 90 deg C</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>10 g/m³</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>70 g/m³</td>
</tr>
<tr>
<td>Density</td>
<td>1.6703</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

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.


11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Amorphous Silica(112926-00-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Acute toxicity: Inhalation</td>
<td>no data available</td>
</tr>
<tr>
<td>Acute toxicity: Dermal</td>
<td>no data available</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Respiratory or skin sensation</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Carcinogenicity: IARC: Group 3:</td>
<td>not classifiable as to its carcinogenicity to humans</td>
</tr>
<tr>
<td>Property</td>
<td>Details</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ACGIH</td>
<td>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</td>
</tr>
<tr>
<td>NTP</td>
<td>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</td>
</tr>
<tr>
<td>OSHA</td>
<td>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</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>no data available</td>
</tr>
<tr>
<td>Additional information</td>
<td>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.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Stomach - irregularities - based on human evidence</td>
</tr>
<tr>
<td>Barium Sulfate(7727-43-7)</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute toxicity - Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensation</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity - mouse - micronucleus test</td>
<td>No reported data</td>
</tr>
<tr>
<td>Carcinogenicity - rat - intrapleural - tumorigenic</td>
<td>Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors</td>
</tr>
<tr>
<td>IARC</td>
<td>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</td>
</tr>
<tr>
<td>ACGIH</td>
<td>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</td>
</tr>
<tr>
<td>NTP</td>
<td>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</td>
</tr>
<tr>
<td>OSHA</td>
<td>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</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
<tr>
<td>Additional information</td>
<td>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.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Stomach irregularities - based on human evidence</td>
</tr>
<tr>
<td>Carbon Black(1333-86-4)</td>
<td>LD50 Oral - Rat: &gt; 8,000 mg/kg, male and female, (OECD Test Guideline 401)</td>
</tr>
<tr>
<td></td>
<td>LD50 Inhalation - Rat: No data available</td>
</tr>
<tr>
<td>LD50 Dermal - Rabbit</td>
<td>&gt; 3,000 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No skin irritation - 24 h, (OECD Test Guideline 404)</td>
</tr>
<tr>
<td>Eye damage/irritation - Rabbit</td>
<td>No eye irritation, (OECD Test Guideline 405)</td>
</tr>
<tr>
<td>Respiratory/skin sensitization - Guinea pig</td>
<td>Did not cause sensitization on laboratory animals, (OECD Test Guideline 406)</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Ames test, S. typhimurium, negative</td>
</tr>
<tr>
<td>Hamster - Ovary</td>
<td>Negative</td>
</tr>
<tr>
<td>DNA repair - Rat - Female</td>
<td>Negative</td>
</tr>
<tr>
<td>Carcinogenicity - Rat - Inhalation</td>
<td>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.</td>
</tr>
<tr>
<td>IARC</td>
<td>2B - Group 2B: Possibly carcinogenic to humans (carbon black)</td>
</tr>
</tbody>
</table>
### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Toxicity</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative potential</th>
<th>Mobility in soil</th>
<th>PBT and vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Silica(112926-00-8)</td>
<td>No data available</td>
<td>The methods for determining biodegradability are not applicable in inorganic substances</td>
<td>No data available</td>
<td>No data available</td>
<td>not available/not required</td>
</tr>
<tr>
<td>Barium Sulfate(7727-43-7)</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Black(1333-86-4)</td>
<td>Toxicity to fish LC50: Danio rerio (zebra fish) &gt;1000 mg/l - 96 h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Toxicity to daphnia and other aquatic invertebrates</td>
<td>Daphnia magna (Water flea) &gt; 5600 mg/l - 24 h (OECD Test Guideline 202)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50 Toxicity to algae</td>
<td>Desmodesmus subspicatus (green algae &gt; 10,000 mg/l - 72 h (OECD Test Guideline 201)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>Not available/not required</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.
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

<table>
<thead>
<tr>
<th>This product contains:</th>
<th>Chemical CAS#</th>
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<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>This product contains:</th>
<th>Chemical CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>~Carbon Black</td>
<td>1333-86-4</td>
</tr>
</tbody>
</table>

National Regulations Key
~ Indicates a chemical listed by IARC as a possible carcinogen.
^ Indicates a chemical listed by IARC as carcinogenic to humans.
STATE REGULATIONS
CALIFORNIA PROPOSITION 65

<table>
<thead>
<tr>
<th>This product contains:</th>
<th>Chemical CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Carbon Black</td>
<td>1333-86-4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
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Pennsylvania Right to Know

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<td>Amorphous Silica</td>
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</table>

New Jersey Right to Know

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<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112926-00-8</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Health</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>E</td>
</tr>
</tbody>
</table>

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.