1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: T391-GR1031 TEXTURE SILVER

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: 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triglycidyl Isocyanurate</td>
<td>5% - 10%</td>
<td>2451-62-9</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 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TLV (Threshold Limit Value)</th>
<th>USA OSHA TWA (Table Z-1)</th>
<th>USA OSHA TWA (Table Z-3)</th>
<th>USA NIOSH TWA (REL)</th>
<th>Glycerol(56-81-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triglyceridyl Isocyanurate(2451-62-9)</td>
<td>TWA (Time Weighted Average)</td>
<td>0.05 mg/m³ 8 hours</td>
<td>6 mg/m³</td>
<td>20 Million particules per cubic foot.</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Amorphous Silica(112926-00-8)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>USA OSHA TWA (Table Z-1)</td>
<td>6 mg/m³</td>
<td>6 mg/m³</td>
<td>20 Million particules per cubic foot.</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>USA ACGIH TWA (TLV)</td>
<td>10 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>USA OSHA TWA (OEL) Table Z-1</td>
<td>15 mg/m³</td>
<td></td>
<td></td>
<td></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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<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>1.2858</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 : Avoid contact with strong oxidizing agents.


11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Substance</th>
<th>Acute toxicity - LD50 - oral - rat</th>
<th>Acute toxicity - LC50 - inhalation - rat - male - 4 h</th>
<th>Acute toxicity - LD50 - Dermal - rat - male &amp; female</th>
<th>Skin irritation - rabbit</th>
<th>Eye irritation - rabbit</th>
<th>Respiratory or skin sensation - Maximization test - guinea pig</th>
<th>Germ cell mutagenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triglyceridyl Isocyanurate(2451-62-9)</td>
<td>100 - 200 mg/kg</td>
<td>&gt; 650 mg/m³</td>
<td>&gt; 2000 mg/kg</td>
<td>Mild skin irritation - 24 hours</td>
<td>Severe eye irritation</td>
<td>May cause sensitization by skin contact</td>
<td>In vivo tests showed mutagenic effects</td>
</tr>
</tbody>
</table>
Germ cell mutagenicity - AMES test - S. typhimurium  Positive

Germ cell mutagenicity - AMES test - mouse - male  Positive

IARC  No component of this product present at levels greater than or equal to 0.1%is identified as a probable, possible or confirmed human carcinogen by IARC

ACGIH  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP  No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity  No data available

Specific target organ toxicity - single exposure  No data available

Specific target organ toxicity - repeated exposure  No data available

Aspiration hazard  No data available

Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

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.

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 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

Reproductive toxicity
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

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional information
Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation. Damage to the lungs. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information
Stomach irregularities - based on human evidence

Glycerol(56-81-5)

Acute toxicity - LD50 - oral - rat
12,600 mg/kg

Acute toxicity - inhalation
No data available

Acute toxicity - LD50 - dermal - rabbit
> 10,000 mg/kg

Skin irritation - rabbit
Mild skin irritation / 24 h

Eye irritation - rabbit
Mild eye irritation / 24 h

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

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
Prolonged or repeated exposure may cause: nausea headache, vomiting

Additional information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information
Kidney irregularities based on human evidence

12. ECOLOGICAL INFORMATION

1,3,5-Triglycidyl Isocyanurate(2451-62-9)

Toxicity to fish - static test LC50 - danio rerio (zebra fish)
> 77 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates - Immobilization - EC50 - daphnia magna (water flea)
> 100 mg/l - 24 h

Toxicity to algae - growth inhibition - EC50 - Desmodesmus subspicatus
29 - 30 mg/l - 72 h

Toxicity to bacteria - Respiration inhibition - IC50 - Sludge Treatment
> 100 mg/l - 3 h

Persistence and degradability - biodegradability - aerobic - exposure time:
44 d

Bioaccumulative potential
No data available

Mobility in soil
No data available

PBT & vPvB
not available/not required

Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects

Amorphous Silica(112926-00-8)

Toxicity
no data available

Persistence and degradability
no data available
Bioaccumulative potential | no data available
---|---
Mobility in soil | no data available
PBT and vPvB | not available/not required

Barium Sulfate (7727-43-7)

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>The methods for determining biodegradability are not applicable in inorganic substances</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No data available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available</td>
</tr>
<tr>
<td>PBT and vPvB</td>
<td>not available/not required</td>
</tr>
</tbody>
</table>

Glycerol (56-81-5)

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>No data available</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No data available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available</td>
</tr>
<tr>
<td>PBT and vPvB</td>
<td>Not available/not required</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>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triglycidyl Isocyanurate</td>
<td>2451-62-9</td>
</tr>
</tbody>
</table>

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

CLEAN AIR ACT:

INTERNATIONAL REGULATIONS

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

- Eye Dam. 1 H318 Causes serious eye damage
- Skin Sens. 1 H317 May cause an allergic skin reaction
- Muta. 1B H340 May cause genetic defects
- Carc. 2 H351 Suspected of causing cancer
- STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects

NATIONAL REGULATIONS

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**

**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](http://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](http://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](http://WWWPROP65.CA.GOV).

**Massachusetts Right to Know**

<table>
<thead>
<tr>
<th>This product contains</th>
<th>Chemical CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112926-00-8</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

**Pennsylvania Right to Know**

<table>
<thead>
<tr>
<th>This product contains</th>
<th>Chemical CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112926-00-8</td>
</tr>
<tr>
<td>Butyltriphenylphoshonium Chloride</td>
<td>13371-17-0</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>

**New Jersey Right to Know**

<table>
<thead>
<tr>
<th>This product contains</th>
<th>Chemical CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
</tr>
<tr>
<td>1,3,5-Triglycidyl Isocyanurate</td>
<td>2451-62-9</td>
</tr>
<tr>
<td>Amorphous Silica</td>
<td>112926-00-8</td>
</tr>
<tr>
<td>Butyltriphenylphoshonium Chloride</td>
<td>13371-17-0</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

Other Product Information:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>% Volatile by Volume</td>
<td>0.00</td>
</tr>
<tr>
<td>% Solids by volume</td>
<td>100.00</td>
</tr>
<tr>
<td>% Volatile by Weight</td>
<td>0.00</td>
</tr>
<tr>
<td>% Solids by Weight</td>
<td>100.00</td>
</tr>
</tbody>
</table>

VOC CONTENT:

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

HMIS RATING

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<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>

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.