KIT - SAFETY DATA SHEET

Product identifier used on the label:
Kit Name: DEVCON® Plastic Steel® Putty (A)
Stock No.: 10120

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:
Manufacturer Name: ITW Performance Polymers
Address: 30 Endicott Street
          Danvers, MA 01923

Component list

<table>
<thead>
<tr>
<th>Component A</th>
<th>Component B</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLASTIC STEEL PUTTY (A) RESIN</td>
<td>Putty Hardener</td>
</tr>
</tbody>
</table>

Kit SDS Revision Date 08/10/2015

Component A - SDS

SECTION 1 : IDENTIFICATION

Product identifier used on the label:
Product Name: PLASTIC STEEL PUTTY (A) RESIN

Other means of identification:
Synonyms: None.

Recommended use of the chemical and restrictions on use:
Product Use/Restriction: Not applicable.

Chemical manufacturer address and telephone number:
Manufacturer Name: ITW
Address: 30 Endicott Street
          Danvers, MA 01923
General Phone Number: (978) 777-1100

Emergency phone number:
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):
GHS Pictograms:

Signal Word: WARNING.
GHS Class:
- Eye Irritation. Category 2.
- Skin Irritation. Category 2.
- Skin Sensitization. category 1.
- Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.

Hazard Statements:
- H319 - Causes serious eye irritation.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H335 - May cause respiratory irritation.
Precautionary Statements:
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P313 - If skin irritation persists: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.


Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>7439-89-6</td>
<td>50 - 60 by weight</td>
<td></td>
</tr>
<tr>
<td>Titanium</td>
<td>7440-32-6</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
<tr>
<td>Bisphenol A diglycidyl ether resin</td>
<td>25068-38-6</td>
<td>20 - 30 by weight</td>
<td></td>
</tr>
<tr>
<td>Organophillic clay</td>
<td>71011-26-2</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>10 - 20 by weight</td>
<td></td>
</tr>
<tr>
<td>Aluminum flake</td>
<td>7429-90-5</td>
<td>1 - 10 by weight</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:
Suitable Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable extinguishing media: Water or foam may cause frothing.

Unusual Fire Hazards: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in Section 8.

Reference to other sections:

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Hygiene Practices: Wash thoroughly after handling.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Silicon:

Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)  
PEL-TWA: 5 mg/m³ Respirable fraction (R)

Aluminum flake:

Guideline ACGIH: TLV-TWA: 1 mg/m³ Respirable fraction (R)  
TLV-TWA: 1 mg/m³ Respirable fraction (R)  
TLV-TWA: 1 mg/m³ (R)

Guideline OSHA: PEL-TWA: 15 mg/m³ Total particulate/dust (T)  
PEL-TWA: 5 mg/m³ Respirable fraction (R)

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Notes: Only established PEL and TLV values for the ingredients are listed.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: Paste.
Color: Dark Gray
Odor: Slight odor.
Boiling Point: >500°F (260°C)
Melting Point: Not determined.
Specific Gravity: 2.8
Solubility: negligible.
Vapor Density: >1 (air = 1)
Vapor Pressure: 0.03 mmHg @171°F
Percent Volatile: 0
Evaporation Rate: <=1 (butyl acetate = 1)
pH: Neutral.
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: >400°F (204.4°C)
Flash Point Method: Pensky-Martens Closed Cup
Lower Flammable/Explosive Limit: Not determined.
Upper Flammable/Explosive Limit: Not determined.
Auto Ignition Temperature: Not determined.
VOC Content: 0 g/L

9.2. Other information:
Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Possibility of hazardous reactions: Not reported.
Hazardous Polymerization: Not reported.
Conditions To Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.
Incompatible Materials: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Iron:
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Oral - Rat LD50 - Lethal dose, 50 percent kill: 750 mg/kg [Blood - Changes in serum composition (e.g., TP, bilirubin, cholesterol) Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Transaminases] (RTECS)

Bisphenol A diglycidyl ether resin:
Eye:
Administration into the eye - Rabbit Standard Draize test:
- 100 mg [Mild]
- 20 mg/24H [Moderate]
- 5 mg/24H [Severe] (RTECS)

Skin:
Administration onto the skin - Rabbit Standard Draize test:
- 20 mg/24H [Moderate]
- 5 mg/24H [Severe] (RTECS)

Ingestion:
Oral - Rat LD50 - Lethal dose, 50 percent kill:
- 10700 uL/kg [Details of toxic effects not reported other than lethal dose value]
- 13600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
- 11.4 gm/kg [Details of toxic effects not reported other than lethal dose value]
- 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain]
- 30 gm/kg [Details of toxic effects not reported other than lethal dose value]

Oral - Rat LD50 - Lethal dose, 50 percent kill:
- 11400 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic (RTECS)]

Silicon:
Eye:
Administration into the eye - Rabbit Standard Draize test: 3 mg [Mild] (RTECS)

Ingestion:
Oral - Rat LD50 - Lethal dose, 50 percent kill:
- 3160 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:
No ecotoxicity data was found for the product.

Environmental Fate:
No environmental data found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:
Waste Disposal:
Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number:
Not determined.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:
Refer to Bill of Lading

DOT UN Number:
Refer to Bill of Lading

IATA Shipping Name:
Refer to Bill of Lading

IATA UN Number:
Refer to Bill of Lading

IMDG UN Number:
Refer to Bill of Lading

IMDG Shipping Name:
Refer to Bill of Lading

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Iron:
TSCA Inventory Status:
Listed

Canada DSL:
Listed

Titanium:
TSCA Inventory Status:
Listed

Canada DSL:
Listed

Bisphenol A diglycidyl ether resin:
TSCA Inventory Status:
Listed

Canada DSL:
Listed
### WHMIS Pictograms:
- **Organophillic clay:**
  - TSCA Inventory Status: Listed
  - Canada DSL: Listed

- **Silicon:**
  - TSCA Inventory Status: Listed
  - Canada DSL: Listed

- **Aluminum flake:**
  - TSCA Inventory Status: Listed
  - Canada DSL: Listed

#### Section 313:
- **EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.**
- **Canadian Regulations:**
  - WHMIS Hazard Class(es): D2B
  - All components of this product are on the Canadian Domestic Substances List.

#### SECTION 16: ADDITIONAL INFORMATION

<table>
<thead>
<tr>
<th>HMIS Ratings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS Health Hazard</td>
<td>2*</td>
</tr>
<tr>
<td>HMIS Fire Hazard</td>
<td>1</td>
</tr>
<tr>
<td>HMIS Reactivity</td>
<td>1</td>
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<tr>
<td>HMIS Personal Protection</td>
<td>X</td>
</tr>
</tbody>
</table>

- **SDS Revision Date:** May 19, 2015
- **SDS Revision Notes:** GHS Update
- **SDS Format:** In accordance to OSHA GHS 1910.1200
- **SDS Author:** Actio Corporation

#### Disclaimer:
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---

**Component B - SDS**

### SECTION 1: IDENTIFICATION

<table>
<thead>
<tr>
<th>Product identifier used on the label:</th>
<th>Putty Hardener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Putty Hardener</td>
</tr>
</tbody>
</table>

**Other means of identification:**

**Recommended use of the chemical and restrictions on use:**

**Chemical manufacturer address and telephone number:**

<table>
<thead>
<tr>
<th>Manufacturer Name:</th>
<th>ITW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>30 Endicott Street, Danvers, MA 01923</td>
</tr>
<tr>
<td>General Phone Number:</td>
<td>(978) 777-1100</td>
</tr>
</tbody>
</table>

**Emergency phone number:**

<table>
<thead>
<tr>
<th>Emergency Phone Number:</th>
<th>(800) 424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMTREC:</td>
<td>For emergencies in the US, call CHEMTREC: 800-424-9300</td>
</tr>
</tbody>
</table>
SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

Signal Word: DANGER.

GHS Class:
- Serious Eye Damage. category 1.
- Skin corrosion. category 1.
- Skin Sensitization. category 1.

Hazard Statements:
- H318 - Causes serious eye damage.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.

Precautionary Statements:
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
- P302+P352 - IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Specific treatment (see ... on this label).
- P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P363 - Wash contaminated clothing before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure:
- Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye:
- Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin:
- Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation:
- Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion:
- Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects:
- Prolonged skin contact causes burns. Repeated or prolonged inhalation may cause toxic effects.

Signs/Symptoms:
- Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs:

Aggravation of Pre-Existing Conditions:
- Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous silica</td>
<td>112945-52-5</td>
<td>5 - 15 by weight</td>
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</tr>
<tr>
<td>Aliphatic Amines</td>
<td>No Data</td>
<td>40 - 50 by weight</td>
<td></td>
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<tr>
<td>Triethylenetetramine</td>
<td>112-24-3</td>
<td>15 - 25 by weight</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>15 - 25 by weight</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.5 - 1.0 by weight</td>
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</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>&lt; 0.1 by weight</td>
<td></td>
</tr>
<tr>
<td>Aluminum trihydrate</td>
<td>21645-51-2</td>
<td>&lt; 0.1 by weight</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES
Description of necessary measures:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable extinguishing media: Water or foam may cause frothing.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Reference to other sections:

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Avoid contact with eyes and skin. Do not reuse containers without proper cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Titanium dioxide:

Guideline ACGIH: TLV-TWA: 10 mg/m3

Appropriate engineering controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Notes: Only established PEL and TLV values for the ingredients are listed.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical State Appearance</td>
<td>Paste</td>
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<tr>
<td>Color</td>
<td>White</td>
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<tr>
<td>Odor</td>
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<tr>
<td>Boiling Point</td>
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<td>Flash Point</td>
<td>&gt;200°F (93.3°C)</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>Tag closed cup. (TCC)</td>
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<tr>
<td>Lower Flammable/Explosive Limit</td>
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</tr>
<tr>
<td>Upper Flammable/Explosive Limit</td>
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</tr>
<tr>
<td>Auto Ignition Temperature</td>
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</tr>
<tr>
<td>VOC Content</td>
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</tbody>
</table>

9.2. Other information:

Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Product may slowly corrode copper, aluminum, zinc and galvanized surfaces.

Incompatible Materials:


SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Synthetic amorphous silica:
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Triethylenetetramine:
Eye: Administration into the eye - Rabbit LD50 - Lethal dose, 50 percent kill: 805 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 20 mg/24H [Moderate] (RTECS)
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Benzyl alcohol:
Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 2000 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Inhalation: Inhalation - Rat LC50 - Lethal concentration, 50 percent kill: >500 mg/m3 [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

Benzyl alcohol:
Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Benzyl alcohol:

Titanium dioxide:
Chronic Effects: Normal application procedures for this product pose minimal hazard as to the release of respirable titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: “No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials”. OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that titanium dioxide is a potential carcinogen to rats.
Carcinogenicity: Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation.

Amorphous silica:
Eye: Administration into the eye - Rabbit Standard Draize test: 25 mg/24H [Mild] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Refer to Bill of Lading
DOT UN Number: Refer to Bill of Lading
IATA Shipping Name: Refer to Bill of Lading
IATA UN Number: Refer to Bill of Lading
IMDG UN Number: Refer to Bill of Lading
IMDG Shipping Name: Refer to Bill of Lading

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Synthetic amorphous silica:
Canada DSL: Listed
Triethylenetetramine:
TSCA Inventory Status: Listed
Canada DSL: Listed
Benzy alcohol:
TSCA Inventory Status: Listed
Canada DSL: Listed
Titanium dioxide:
TSCA Inventory Status: Listed
Canada DSL: Listed
Amorphous silica:
TSCA Inventory Status: Listed
Canada DSL: Listed
Aluminum trihydrate:
TSCA Inventory Status: Listed
Canada DSL: Listed
Canadian Regulations. WHMIS Hazard Class(es): D2B
WHMIS Pictograms:

### SECTION 16 : ADDITIONAL INFORMATION

**HMIS Ratings:**

<table>
<thead>
<tr>
<th>HMIS Health Hazard</th>
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</thead>
<tbody>
<tr>
<td>HMIS Fire Hazard</td>
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</tr>
<tr>
<td>HMIS Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>HMIS Personal Protection</td>
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</table>

**SDS Creation Date:** June 06, 2014
**SDS Revision Date:** August 28, 2017
**SDS Revision Notes:** Formulation Update
**SDS Format:** In accordance to OSHA GHS 1910.1200
**SDS Author:** Actio Corporation

**Disclaimer:**

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*Chronic Health Effects*