SAFETY DATA SHEET

PBTP – (RAL 8029 – PEARL COPPER) – SKU212901

Revision date: 06/02/2018

Supplier
Powder Buy The Pound
P.O. Box 535
Nolensville, TN. 37135

For non-emergency information contact: 615-776-7600

Emergency Telephone
Spill Emergency     800-424-9300
Health Emergency    800-441-3637
Chemtrec            800-424-9300

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Description: Product is a mixture of hazardous and non-hazardous ingredients compounded in Polymer

Hazardous components: CAS# PEL-OSHA TLV-ACGIH Conc.[%] T-Glycid-T-Cyanurate (TGIC) 2451-62-9 N/E 0.05 mg/m3 5-10

3. HAZARDS IDENTIFICATION

Hazard Summary

CAUTION!
POWDER MAY FORM EXPLOSIVE MIXTURES WITH AIR.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
MAY CAUSE EYE/SKIN IRRITATION.
HARMFUL BY INHALATION AND IF SWALLOWED.
PROLONGED OR REPEATED OVEREXPOSURE TO BARIUM SULFATE CAN CAUSE BARITOSIS (A BENIGN PNEUMOCONIOSIS). TGIC IS A POTENTIAL MUTAGEN AND GENOTOXIN. TGIC CAUSED SPERM CELL ABERRATIONS IN LABORATORY MICE.

Potential Health Effects

Eyes: Like any foreign body, particles can cause mechanical irritation. Causes eye irritation.

Skin: Material can cause the following: May cause sensitization by skin contact

Inhalation: Inhalation of dust can cause the following: headache, nausea

Primary Routes of Entry: Inhalation, Eye Contact, Skin Contact

Chronic Exposure: Prolonged or repeated overexposure to carbon black can cause lung effects. Prolonged or repeated overexposure to barium sulfate can cause baritosis (a benign pneumoconiosis). TGIC is a potential mutagen and genotoxin. TGIC caused sperm cell aberrations in laboratory mice.
<table>
<thead>
<tr>
<th>Substance</th>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td>IRIS</td>
<td>Not classifiable</td>
</tr>
<tr>
<td>Barium sulfate</td>
<td>ACGIH</td>
<td>Not classifiable as a human carcinogen</td>
</tr>
<tr>
<td>Clear resin</td>
<td>ACGIH</td>
<td>Not classifiable as a human carcinogen</td>
</tr>
<tr>
<td>Clear resin</td>
<td>IARC</td>
<td>Possible carcinogen</td>
</tr>
<tr>
<td>Clear resin</td>
<td>US CA CRT</td>
<td>Carcinogenic</td>
</tr>
<tr>
<td>Clear resin</td>
<td>NIOSH</td>
<td>Potentially carcinogenic</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. Give artificial respiration if breathing has stopped. When symptoms persist or in all cases of doubt, seek medical advice. If unconscious in recovery position and seek medical advice. Keep patient warm and at rest.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. In case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. Resin particles, like other inert materials, are mechanically irritating to eyes.

**Ingestion:** Never give anything by mouth to an unconscious person. Consult a physician. Immediately give large quantities of water to drink. Include vomiting, but only if the victim is fully conscious. If a person vomits when lying on his back, place him in the recovery position.

### 5. FIRE-FIGHTING MEASURES

**Flash point**
- Not Determined not applicable

**Lower explosion limit**
- 30-70%(V)

**Upper explosion limit**
- Not Determined

**Thermal decomposition**
- During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition. Thermal decomposition may yield the following: sulfur oxides, Carbon oxides

**Suitable extinguishing media:** Dry powder, foam, sand

**Specific hazards during fire fighting:** Do not allow run-off from fire fighting to enter drains or water courses. Dusts at sufficient concentrations can form explosive mixtures with air. DO NOT use a solid stream of water. A solid stream of water directed at this material may create a potentially explosive airborne dust mixture.

**Special protective equipment for fire fighters:** Wear full protective clothing and self-contained breathing apparatus.

**Further information:** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
- Evacuate personnel to safe areas.
- MATERIAL IS TOXIC. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures for further information.
- MATERIAL IS A POTENTIAL SENSITIZER.
- Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.
Avoid breathing dust.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.
NOTE: Spills on porous surfaces can contaminate groundwater.

**Methods for cleaning up**
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).
Clean contaminated surface thoroughly.
Clean up promptly by sweeping or vacuum.
Do not create a powder cloud by using a brush or compressed air.
No sparking tools should be used.
Remove all sources of ignition.

**Additional advice:** See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills.
MATERIAL IS A POTENTIAL SKIN SENSITIZER. If exposed to material during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water.

### 7. HANDLING AND STORAGE

For personal protection see section 8. Plan first aid action before beginning work with this product. Avoid exposure-obtain special instructions before use. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid formation of respirable particles. Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Avoid exceeding the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. This material is a potential skin sensitizer. See SECTION 8, Exposure Controls/Personal Protection, prior to handling. This material is TOXIC. Use only in an area equipped with a safety shower. Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion:** Avoid formation of dust and aerosols. During processing, dust may form explosive mixture in air.

**Storage**

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only.

**Storage period:** 12 months; For product stored in clean, dry conditions at less than 80°F expected shelf life is at least 12 Months from receipt date.

**Other data:** No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limit(s)**

Exposure limits are listed below, if they exist.

<table>
<thead>
<tr>
<th>Component</th>
<th>Regulation</th>
<th>Type of listing</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td>Powder Buy the Pound</td>
<td>TWA Respirable</td>
<td>3mg/m³</td>
</tr>
<tr>
<td></td>
<td>Powder Buy the Pound</td>
<td>TWA Total</td>
<td>10mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>TWA</td>
<td>10mg/m³</td>
</tr>
<tr>
<td>NIOSH/GUIDE</td>
<td></td>
<td>REL Respirable</td>
<td>5mg/m³</td>
</tr>
<tr>
<td>NIOSH/GUIDE</td>
<td></td>
<td>REL Total</td>
<td>10mg/m³</td>
</tr>
<tr>
<td>OSHA_TRANS</td>
<td></td>
<td>PEL Respirable fraction</td>
<td>5mg/m³</td>
</tr>
<tr>
<td>OSHA_TRANS</td>
<td></td>
<td>PEL Total dust</td>
<td>15mg/m³</td>
</tr>
<tr>
<td>Z1A</td>
<td></td>
<td>TWA Respirable fraction</td>
<td>5mg/m³</td>
</tr>
</tbody>
</table>
### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Melting point/range
  70 - 80 Degrees C or 158 - 176 Degrees F
- Boiling point/range Not Applicable
- Flash point Not Applicable
- Auto igniting Product is still not self-igniting
11. TOXICOLOGICAL INFORMATION

No toxicity data are available for this material.

Skin irritation
Powder can cause localized skin irritation in folds of the skin or under tight clothing.

- **Component:** Barium sulfate
  - **Acute oral toxicity**
    - LD50 mouse >3,000mg/kg

- **Component:** Triglycidyl isocyanurate
  - **Acute oral toxicity**
    - LD50 rat 188mg/kg

- **Component:** Carbon black
  - **Acute oral toxicity**
    - LD50 rat >8,000mg/kg

- **Component:** Triglycidyl isocyanurate
  - **Acute inhalation toxicity**
    - LC50 rat 4h 0.3mg/l aerosol

- **Component:** Triglycidyl isocyanurate
  - **Acute dermal toxicity**
    - LD50 rabbit >3,000 mg/kg

- **Component:** Carbon black
  - **Acute dermal toxicity**
    - LD50 rabbit >3,000mg/kg

- **Component:** Triglycidyl isocyanurate
  - **Eye irritation**
    - rabbit Severe eye irritation

- **Component:** Carbon black
  - **Eye irritation**
    - rabbit No eye irritation

- **Component:** Triglycidyl isocyanurate
  - **Sensitization**
    - guinea pig Skin sensitizer

- **Component:** Triglycidyl isocyanurate
  - **Toxicity to reproduction**
    - Experiments have shown reproductive toxicity effects on laboratory animals.

- **Component:** Triglycidyl isocyanurate
  - **Mutagenicity**
    - Has been found to be mutagenic in a variety of systems.

- **Component:** Carbon black
  - **Teratogenicity**
    - When maternal toxicity occurred slight fetotoxicity but no teratogenicity was also observed in these animals.

12. ECOLOGICAL INFORMATION

Aquatic toxicity is unlikely due to low solubility.

- **Barium sulfate**
  - Ecotoxicity effects
    - Toxicity to aquatic invertebrates
      - EC50 Daphnia magna 48h 32mg/l
Triglycidyl isocynurate
   Elimination information
   (persistence and degradability)
   Biodegradability
   Inherently biodegradable
   Biodegradability
   Not readily biodegraded

Ecotoxicity effects
   Toxicity to fish
   LC50 Zebra fish (Danio/Brachydanio rerio) 96h >77mg/l
   Toxicity to algae
   EC50 Algae 72h OECD Test Guideline 201 29mg/l
   Toxicity to aquatic
   invertebrates
   EC50 Daphnia magna 24h >100mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. NOTE: Spills on porous surfaces can contaminate groundwater.

Disposal
   Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA’s characteristic definition of ignitability, corrosively, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristics Leaching Procedure (TCLP).
   For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations (see 40 CFR Part 268).

Contaminated packaging: Store containers and offer for recycling of material when in accordance with the local regulations.

14. TRANSPORT INFORMATION

DOT ____________ Not regulated for transport

IMO/IMDG _______ Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Workplace Classification
   This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200)
   This product is a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Acute Health Hazard / Chronic Health Hazard

SARA TITLE III: Section 313 information (40CFR372)
   SARA Title III Components: Epichlorohydrin 106-89-8

CERCLA Information (40CFR302.4)
   CERCLA Components: Barium sulfate 7727-43-7 1,000lbs. RQ
US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania
Any material listed as “Not Hazardous” in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

California (Proposition 65)
This product contains trace levels of a component or components known to the state of California to cause cancer and birth defects or other reproductive harm:
Components: Epichlorohydrin 106-89-8

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2*</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Legend

ACGIH American Conference of Governmental Industrial Hygienists
Bac Butyl acetate
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
STEL Short Term Exposure Limit (STEL): 
TLV Threshold Limit Value
TWA Time Weighted Average
I Bar denotes a revision from prior MSDS

The information provided in this Safety Data Sheet is correct to the best of Powder Buy The Pound’s (PSS) knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.