## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Polypatch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Description:</td>
<td>Crushed Rock &amp; Sand Mixed with Petroleum asphalt.</td>
</tr>
<tr>
<td>Synonyms/Common Names:</td>
<td>Polypatch</td>
</tr>
</tbody>
</table>
| Manufacturer/Contact Info: | Teichert Aggregates  
PO Box 15002  
Sacramento, CA 95851 |
| General Phone Number: | (916) 484-3011 (8-5, PST, M-F) |
| Emergency Phone Number: | (800) 287-7383 |

## SECTION 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Harmful by inhalation, skin and eyes.

### OSHA REGULATORY STATUS

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and 8 CCR § 5194 (Cal/OSHA).

### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** Inhalation. Ingestion. Skin contact. Eye contact.

**Eye Contact:**

Do not get this material in contact with eyes. Dust may irritate the eyes. Emissions (fumes) may be irritating to eyes.

**Skin:**

Hot, molten material can cause thermal burns. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Do not get this material in contact with skin. Prior skin problems such as dermatitis may be aggravated by exposure.

**Inhalation:**

Dust may irritate respiratory system. Vapors/fumes from hot materials may cause throat or lung irritation and nausea. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Prior respiratory tract conditions such as bronchitis may be aggravated by exposure.

**Ingestion:**

Not expected to pose significant health hazard but direct contact with hot material can cause thermal burns.

### TARGET ORGANS

Eyes. Skin.

### CHRONIC EFFECTS

Conjunctiva. Prolonged skin contact may defat the skin and produce dermatitis. Chronic inhalation of fumes or dust may cause irritation or other respiratory conditions (e.g., bronchitis).

### GHS label elements

<table>
<thead>
<tr>
<th>Signal word:</th>
<th>Danger</th>
</tr>
</thead>
</table>
| Hazard Statements: | May cause severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause respiratory irritation. |
SIGNS AND SYMPTOMS


POTENTIAL ENVIRONMENT EFFECTS

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS No.</th>
<th>% by Weight</th>
<th>PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crushed Rock and Sand (1)</td>
<td>Mixture</td>
<td>&lt;90</td>
<td>10 mg/m³**</td>
<td>10 mg/m³**</td>
</tr>
<tr>
<td>Petroleum Asphalt</td>
<td>8052-42-4</td>
<td>&lt;10</td>
<td>5 mg/m³**</td>
<td>3 mg/m³***</td>
</tr>
<tr>
<td>Petroleum Distillate</td>
<td>8002-05-9</td>
<td>&lt;1</td>
<td>5 mg/m³**</td>
<td>0.5 mg/m³***</td>
</tr>
<tr>
<td>Fuel Oil</td>
<td>68467-34-6</td>
<td>&lt;1</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

Comments: (1) Crushed Rock and Sand: Natural sand includes quartz, a form of crystalline silica. Composition varies naturally.

*TOTAL DUST ***ASPHALT FUME, AS BENZENE-SOLUBLE AEROSOL

SECTION 4. FIRST AID MEASURES

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Skin:
Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on skin. If hot, molten material contacts skin, quickly cool the area with water. Get medical attention if irritation develops or persists. Seek medical attention for extensive burns. Do not use solvents or thinner to remove asphalt from skin. Asphalt can be removed with vegetable oil followed by soap and water or waterless hand cleaner.

Inhalation:
Remove to fresh air. Call a physician if symptoms develop or persist. Get medical attention if any discomfort continues.

Ingestion:
Seek medical advice. If ingestion of a large amount does occur, call a poison control center immediately. However, ingestion of small amounts of the material is not expected to pose a significant health hazard.

Notes to Physician:
Keep victim under observation. Symptoms may be delayed. Skin exposure to asphalts can cause workers to experience photosensitization, a condition where the exposed area of skin becomes very sensitive to sunlight, and other sources of ultraviolet (UV) light. Without exposure to UV, sensitive skin may appear to be sunburned. With exposure to UV, the skin may blister and develop sores.

General Advice:
If exposed or concerned: get medical attention/advice. If breathing is difficult, give oxygen. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. As with any chemical, skin contact with this product, and the breathing of product dust, fumes or vapors, should be minimized. Some asphalt contains sulfur and may form hydrogen sulfide gas when heated, or when hot asphalt is transferred to a storage area and let cool. This is particularly hazardous when heating or cooling occurs in a poorly ventilated area. Workers exposed to high concentrations of hydrogen sulfide may be rendered unconscious within seconds and, if not immediately removed, die or suffer permanent nervous system damage.

Suspected Cancer Agent NO Federal OSHA NO NTP X IARC

NOTE:
1) IARC LISTS CRYSTALLINE SILICA AS A KNOWN HUMAN CARCINOGEN, NOT A KNOWN HUMAN CARCINOGEN. CRYSTALLINE SILICA POSSES A HEALTH HAZARD WHEN IT IS INHALED AS A DUST.
2) EXPOSURE TO AIRBORNE SILICA DUST DURING PRODUCT USE IS UNLIKELY BECAUSE SAND PARTICLES ARE COATED WITH ASPHALT.

PROP 65 WARNING: CRUSHED ROCK AND IN CUTBACK ASPHALT CONTAINS QUANTITIES OF FINE CYRSTALLINE SILICA. CRYSTALLINE SILICA (QUARTZ) DUST IS LISTED UNDER TITLE 22, SECTION 12000, YOURSELF WITH THE HAZARDS OF THE MATERIALS AND EQUIPMENT YOU ARE USING AND FOLLOW THE PRECAUTIONS INDICATED ON PRODUCT LABELS, MATERIAL SAFETY DATA SHEETS, AND YOUR HEALTH AND SAFETY PROGRAM.
SECTION 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Flammable Properties:</th>
<th>Flashpoint (method used):</th>
<th>Flammable Limits in Air (% volume in air):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid component is combustible.</td>
<td>Product: NE</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Extinguishing Media:
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Avoid using a direct stream of water. Water spray should be used to cool containers. Do not let water make direct contact with hot material in a container due to the potential of a violent explosion.

Protection of Firefighters:
Cool containers with flooding quantities of water until well after fire is out. Use of water on asphalt fire in a tank or other container may cause a violent eruption.

Specific Methods:
Containers close to fire should be removed or cooled with water. Adding water to hot asphalt presents an explosion hazard. Never weld or use cutting torch or open flame on or near full or partially full or empty containers as vapors can ignite explosively. Warning: Hydrogen sulfide (H2S) and other gases/vapor may evolve and collect in the head space of storage tanks or other enclosed vessels and create an explosion toxic or oxygen deficient environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental Precautions:
Contain spilled material. Do not contaminate water sources or sewer.

Methods for Containment:
Prevent entry into waterways, sewers, basements or confined areas.

Methods for Clean Up:
Allow molten material to harden before clean up. Sweep up or gather material and place in appropriate container for disposal. Avoid release to the environment. Do not allow material to enter storm or sanitary sewers, groundwater or soil.

SECTION 7. HANDLING AND STORAGE

Handling:
Do not get this material in contact with eyes. Do not get this material in contact with skin. Use only with adequate ventilation. Use personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. Handle and open container with care. Do not attempt to clean empty containers. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Triping incidences have occurred because of asphalt buildup on bottoms of shoes and boots; buildup should be removed regularly to prevent such incidences. Do not use solvents or thinners to clean footwear. Further information: If personnel must enter a tank that contained this material, follow OSHA’s Confined Space Entry Program as specified in 29 CFR 1910.146 (OSHA) or 8 CCR § 5157 (Cal/OSHA). Respirable crystalline silica-containing dust may be generated when hardened concrete product is subject to mechanical forces such as demolition work, surface treatment (sanding, grooving, chiseling, etc.) and recycling of pavement.

Storage:
Store in a well-ventilated place. Keep container tightly closed. Avoid heat, sparks, open flames and other ignition sources. Keep this material away from food, drink and animal feed. Keep out of reach of children. Vapors containing hydrogen sulfide may accumulate during storage or transport of asphaltic materials. When petroleum asphalt products are heated, potentially irritating emissions (fumes, mists, and vapors) may be released.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA/MSHA Permissible Exposure Limit (PEL)</th>
<th>ACGIH Threshold Limit Valve (TLV)</th>
<th>Cal/OSHA Permissible Exposure Limit (PEL)</th>
</tr>
</thead>
</table>
| Particulates
(Not otherwise regulated) | 15 mg/m³ (total)
5 mg/m³ (respirable) | 10 mg/m³ (inhaled)
3 mg/m³ (respirable) | 10 mg/m³ (total)
5 mg/m³ (respirable) |
| Crystalline Silica
(Quartz, Cristoballite, Tridymite) | OSHA: 10 mg/m³ (%SiO₂+2)
(respirable particulate containing silica)
OSHA PEL for cristobalite and tridymite is ½ of the calculated value for quartz.
MSHA: 30 mg/m³ (%SiO₂+2) | 0.025 mg/m³ (respirable quartz and cristobalite)
0.05 mg/m³ (respirable cristobalite and tridymite) | 0.1 mg/m³ (respirable quartz)
0.05 mg/m³ (respirable cristobalite and tridymite) |
Petroleum Asphalt (Asphalt fumes) | particulate | 0.5 mg/m³ (inhalable) as benzene soluble fraction | 5 mg/m³

Engineering Controls:
Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye / Face Protection:
Wear safety glasses with side shields. Use personal protective equipment as required.

Skin Protection:
Wear heat resistant and/or impermeable gloves as necessary. According to the physical state of the product, work gloves are appropriate if material is not heated. Wear appropriate chemical resistant clothing. Use personal protective equipment as required.

Respiratory Protection:
Use personal protective equipment as required. In case of inadequate ventilation or risk of inhalation of vapors, use appropriate respiratory equipment as necessary. If airborne concentrations exceed permissible exposure limits (PEL), wear NIOSH-approved respirators to maintain exposures below the PEL.

General Hygiene Considerations:
Use work clothing. Do not get this material in contact with eyes. Do not get this material in contact with skin. Keep away from food, drink and animal feeding stuffs. Observe good industrial hygiene practices.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor:
Coarse black material, Petroleum odor

<table>
<thead>
<tr>
<th>pH: Not available</th>
<th>Melting Point: Not available</th>
<th>Boiling Point: Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation Rate: Not available</td>
<td>Vapor Pressure: Not available</td>
<td>Vapor Density: Not available</td>
</tr>
</tbody>
</table>

Specific Gravity:
Not available

Solubility (water):
Negligible

SECTION 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability:
Stable at normal conditions.

Conditions to Avoid:
Avoid incompatible materials and intense heat.

Incompatible Materials:
Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products:

Hazardous Polymerization:
Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGY INFORMATION

Sensitization:
No data available.

Local Effects:
Contact may irritate or burn eyes. Irritating to respiratory system. Thermal contact burns

Chronic Effects:
Hazardous by OSHA criteria.

Carcinogenicity:
Hazardous by OSHA criteria.

IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation
### Petroleum Asphalt (8052-42-4)
2B Possible carcinogen

### US ACGIH Threshold Limit Values:
- **A2 carcinogen**
- **A4 carcinogen**

### US NTP Report on Carcinogens:
- **Quartz [Silica Crystalline] (14808-60-7)**
  - Human carcinogen
  - Group A2 Suspected human carcinogen
  - Group A4 Not classifiable as a human carcinogen
  - Known carcinogen

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### SECTION 12. ECOLOGICAL INFORMATION

**Environmental Effects:**
Not available

**Other:**
Not available

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### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal Instructions:**
Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

**Waste from Residues / Unused Products:**
Dispose of waste and residues in accordance with local, state and federal requirements.

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### SECTION 14. TRANSPORT INFORMATION

**DOT Proper Shipping Name:**
Not regulated

**DOT Hazard Classification:**
Not applicable

**US/NA Number:**
Not regulated

**DOT Packing Group:**
Not applicable

**Labeling Requirements:**

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### SECTION 15. REGULATORY INFORMATION

**US Federal Regulations:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA).

**Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):**
None

**Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:**

<table>
<thead>
<tr>
<th>Hazardous Categories</th>
<th>Section 302 Extremely Hazardous Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard – Yes</td>
<td>No</td>
</tr>
<tr>
<td>Delayed Hazard – Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard – No</td>
<td>Section 311 Hazardous Chemical</td>
</tr>
<tr>
<td>Pressure Hazard – No</td>
<td>Yes</td>
</tr>
<tr>
<td>Reactivity Hazard – No</td>
<td></td>
</tr>
</tbody>
</table>

**California Proposition 65:**
WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
State Regulatory Lists:
The following materials/components are specifically listed by individual states. For details on regulatory requirements, you should contact the appropriate agency in your state:

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**
- Petroleum Asphalt (8052-42-4) Listed
- Quartz (silica crystalline) (14808-60-7) Listed

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**
- Petroleum Asphalt (8052-42-4) Listed: January 1, 1990 Carcinogenic
- Quartz (silica crystalline) (14808-60-7) Listed: October 1, 1988 Carcinogenic

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**
- Petroleum Asphalt (8052-42-4) Listed
- Quartz (silica crystalline) (14808-60-7) Listed
- Petroleum Distillate (8002-05-9) Listed

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**
- Petroleum Asphalt (8052-42-4) Special hazard

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**SECTION 16. OTHER INFORMATION**

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