SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Poultice Creosote Remover (PCR)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Creosote Remover for Flue Tile

Use of the substance/mixture: For professional use only

1.3. Details of the supplier of the safety data sheet

SaverSystems, Inc.
800 S. 7th Street
Richmond, 47374 - U.S.A.
T (765) 966-5084

1.4. Emergency telephone number

Emergency number: +1 (800) 860-6327 Monday - Friday 8:30 AM - 5:00 PM

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Met. Corr. 1 H290
Skin Corr. 1B H314
Eye Dam. 1 H318
Skin Sens. 1 H317
STOT SE 3 H335
Carc. 1A H350

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) : 

Hazard statements (GHS-US) : H290 - May be corrosive to metals
                                    H314 - Causes severe skin burns and eye damage
                                    H317 - May cause an allergic skin reaction
                                    H335 - May cause respiratory irritation
                                    H350 - May cause cancer

Precautionary statements (GHS-US) : P260 - Do not breathe dust, fume, mist, spray, vapours
                                    P264 - Wash hands thoroughly after handling
                                    P271 - Use only outdoors or in a well-ventilated area
                                    P280 - Wear eye protection, dust respirator, protective clothing, protective gloves
                                    P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
                                    P303+P353 - If on skin (or hair): Rinse skin with water/shower
                                    P304+P340 - If inhaled: Remove person to fresh air and keep 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
                                    P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
                                    P362+P364 - Take off contaminated clothing and wash it before reuse
                                    P390 - Absorb spillage to prevent material damage
                                    P223 - Keep container tightly closed
                                    P405 - Store only in original container
                                    P501 - Dispose of contents/container to comply with applicable local, national and international regulation.
Poultice Creosote Remover (PCR)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards
Other hazards which do not result in classification:
Spilled material may present a slipping hazard. Powders that become wet render surfaces extremely slippery.

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>(CAS No) 1305-62-0</td>
<td>6-10</td>
<td>Skin Irrit. 2, H315, Eye Dam. 1, H318, STOT SE 3, H335</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>(CAS No) 65997-15-1</td>
<td>1-5</td>
<td>Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, STOT SE 3, H335</td>
</tr>
<tr>
<td>Quartz</td>
<td>(CAS No) 1408-60-7</td>
<td>1-5</td>
<td>Carc. 1A H350</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general:
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:
Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel.

First-aid measures after skin contact:
Immediately flush skin with plenty of water for at least 15 minutes. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact:
Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.

First-aid measures after ingestion:
If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Give water to drink if victim completely conscious/alert. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries:
Causes severe skin burns and eye damage. May cause respiratory irritation. May cause cancer by inhalation.

Symptoms/injuries after inhalation:
May cause an allergic skin reaction. May cause respiratory irritation, sore throat, coughing. Overexposure may cause pulmonary edema, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage.

Symptoms/injuries after skin contact:
Direct contact with wet material or by moist skin may cause severe irritation, pain, and possibly burns. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage.

Symptoms/injuries after eye contact:
Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness.

Symptoms/injuries after ingestion:
May cause sore throat, abdominal pain, nausea, and severe burns of mouth, throat and stomach. May cause nausea, vomiting and diarrhea. Edema of the epiglottis and shock may occur.

4.3. Indication of any immediate medical attention and special treatment needed
The affected person must rest and be kept under medical observation.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:

Unsuitable extinguishing media:
Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture
Reactivity: Thermal decomposition generates: Corrosive vapours.

5.3. Advice for firefighters
Firefighting instructions: Keep upwind. Exercise caution when fighting any chemical fire. Cool closed containers exposed to fire with water spray. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, aluminium oxide smoke, Silicon oxide, Metal oxides. Powders that become wet render surfaces extremely slippery.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Avoid unnecessary exposure.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: On land, sweep or shovel into suitable containers. Avoid generation of dust. Dispose of contents/container to comply with applicable local, national and international regulations. Do not use a brush or compressed air for cleaning surfaces or clothing.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: May be corrosive to metals.
Precautions for safe handling: Keep out of reach of children. Provide good ventilation in process area to prevent formation of dust. Use only outdoors. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and when leaving work. If handling results in dust generation or high temperatures, local exhaust ventilation should be provided to ensure that exposure to dust or decomposition products does not exceed the exposure recommended levels. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage. Avoid contact with skin, eyes and clothing. Avoid breathing dust, mist or spray.
Hygiene measures: Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking, and when leaving work. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Comply with applicable regulations. A washing facility/water for eye and skin cleaning purposes should be present.
Storage conditions: Keep out of reach of children. Keep container tightly closed. Keep only in the original container. Do not allow water to get in container.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Calcium hydroxide (1305-62-0)</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>5 mg/m³</th>
</tr>
</thead>
</table>

07/02/2014 EN (English)
Exposure controls

Appropriate engineering controls: Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.


Hand protection: Wear protective gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Environmental exposure controls: Avoid discharge to the environment.

Other information: Do not eat, drink, or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Powder.
Colour: Grey
Odour: None
Odour threshold: No data available
pH: No data available
pH solution: 13 (Approximately 5% solution in DI water)
Relative evaporation rate (butyl acetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: Water: Solubility in water of component(s) of the mixture:
- Calcium hydroxide: 1.6 g/l (at 20 °C)
- Sodium metasilicate: > 200 g/l (at 20 °C)
- Cement, portland, chemicals: <= 1.5 g/l (at 20 °C)
SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates: Corrosive vapours.

10.2. Chemical stability
Not established.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials
Strong oxidizers. Strong acids. Strong bases, metals. May be corrosive to metals, zinc, and tin. On contact with ordinary metals (steel, galvanized, aluminium) corrosion may occur and generate highly flammable hydrogen gas. Fluorine (F).

10.6. Hazardous decomposition products
Thermal decomposition generates: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, SiO2, corrosive vapours, fume, metal oxides. Heating may cause the liberation of small amounts of flammable hydrogen gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified
(Based on available data, the classification criteria are not met)

Quartz (14808-60-7)
IARC group 1 Carcinogenic to Humans

Calcium hydroxide (1305-62-0)
LD50 oral rat 7340 mg/kg
ATE US (oral) 7340.00000000 mg/kg bodyweight

Sodium metasilicate (6834-92-0)
LD50 oral rat 600 mg/kg
ATE US (oral) 600.00000000 mg/kg bodyweight

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
(Based on available data, the classification criteria are not met)
Carcinogenicity: May cause cancer by inhalation.

Reproductive toxicity: Not classified
(Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Poultice Creosote Remover (PCR)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation, sore throat, or coughing. Overexposure may cause pulmonary edema, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, dyspnea, frothy sputum, cyanosis, and dizziness. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage.
Symptoms/injuries after skin contact : Direct contact with wet material or by moist skin may cause severe irritation, pain, and possibly burns. This product contains sodium metasilicate and is highly alkaline and may cause corrosive damage.
Symptoms/injuries after eye contact : Causes serious eye damage. Direct contact may cause severe irritation, pain and burns, possibly severe, and permanent damage including blindness.
Symptoms/injuries after ingestion : May cause sore throat, abdominal pain, nausea, and sever burns of mouth, throat and stomach. May cause nausea, vomiting, and diarrhea. Edema of the epiglottis and shock may occur.

SECTION 12: Ecological information

12.1. Toxicity

Sodium metasilicate (6834-92-0)
LC50 fishes 1 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

12.2. Persistence and degradability

Poultice Creosote Remover (PCR)
Persistence and degradability : Not established.

12.3. Bioaccumulative potential

Poultice Creosote Remover (PCR)
Bioaccumulative potential : Not established.

Calcium hydroxide (1305-62-0)
BCF fish 1 (no bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No known ecological damage caused by this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national, and international regulations. Do not re-use empty containers. Do not pressurize, cut, weld, braze solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Ensure all national/local regulations are observed.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Transport document description : UN3253 Disodium trioxosilicate, 8, III
UN-No.(DOT) : 3253
DOT NA no. : UN3253
DOT Proper Shipping Name : Disodium trioxosilicate
Poultice Creosote Remover (PCR)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Department of Transportation (DOT) Hazard Classes | 8 - Class 8 - Corrosive material 49 CFR 173.136 |
| Hazard labels (DOT) | 8 - Corrosive |

| Packing group (DOT) | III - Minor Danger |
| DOT Special Provisions (49 CFR 172.102) | IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be silt-proof and water-resistant or must be fitted with a silt-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal............. 178.275(d)(2) |
| DOT Packaging Exceptions (49 CFR 173.xxx) | 154 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | 213 |
| DOT Packaging Bulk (49 CFR 173.xxx) | 240 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | 25 kg |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | 100 kg |
| DOT Vessel Stowage Location | A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel. |
| DOT Vessel Stowage Other | 52 - Stow SEPARATED FROM acids |

**Additional information**

*Other information*: No supplementary information available.

**ADR**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

**SECTION 15: Regulatory information**

15.1. US Federal regulations

- **Quartz (14808-60-7)**
  Listed on the United States TSCA (Toxic Substances Control Act)

15.2. International regulations

**CANADA**

- **Calcium hydroxide (1305-62-0)**
  Listed on the Canadian DSL (Domestic Substances List)
  WHMIS Classification Class E - Corrosive Material

- **Sodium metasilicate (6834-92-0)**
  Listed on the Canadian DSL (Domestic Substances List)
  WHMIS Classification Class E - Corrosive Material

- **Cement, portland, chemicals (65997-15-1)**
  Listed on the Canadian DSL (Domestic Substances List)
  WHMIS Classification Class E - Corrosive Material
Poultice Creosote Remover (PCR)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No additional information available

Classification according to Directive 67/548/EEC or 1999/45/EC
No additional information available

15.2.2. National regulations
Quartz (14808-60-7)
Listed on the IARC (International Agency for Research on Cancer)

15.3. US State regulations
Poultice Creosote Remover (PCR)
U.S.- California – Proposition 65 – other information  This product contains crystalline silica, a chemical known to the State of California to cause cancer.

SECTION 16: Other information
Other information : None.
Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity Category 1A</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals, Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)
This information is based on SaverSystems current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.