SECTION 1: Identification

1.1. Product identifier
Product name: SurFix® 928 RM
Product code: Not available.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Cement-based repair material

1.3. Details of the supplier of the safety data sheet
Penetron Specialty Products Inc.
45 Research Way, Suite 203
East Setauket, New York 11733 - USA
T +1 (631) 941-9700
info@penetronsp.com - penetronsp.com

1.4. Emergency telephone number
Emergency number: (Chemtrec): US and Canada: 1-800-424-9300; International +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Irritation 2
Serious Eye Damage 2A
Skin Sensitization 1
Carcinogenicity 1A
Specific Target Organ Toxicity - Repeated Exposure 1

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US):

- GHS05
- GHS08

Signal word (GHS-US): Danger
Hazard statements (GHS-US): Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS-US):
- If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards
None known.

2.4. Unknown acute toxicity GHS-US)
40% of the mixture consists of ingredient(s) of unknown toxicity.

2.5. Other information
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>40 – 70</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>(CAS No) 65997-15-1</td>
<td>10 – 30</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>(CAS No) 1317-65-3</td>
<td>7 – 13</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures after inhalation: If breathing is difficult, remove victim to fresh air. Get medical advice/attention if symptoms occur.

First aid measures after skin contact: In case of contact, wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

First aid measures after eye contact: In case of contact, rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

First aid measures after ingestion: If swallowed, rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

4.2. Most important symptoms and effects, both acute and delayed


Symptoms/injuries after inhalation: May cause respiratory tract irritation. May cause burns in the presence of moisture.

Symptoms/injuries after skin contact: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause burns in the presence of moisture.

Symptoms/injuries after eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting. May cause burns in the presence of moisture.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible). Note to physician: May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and treat for surrounding material.

Unsuitable extinguishing media: Caution: Use of water spray when fighting fire may be inefficient.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by skin contact.

Fire hazard: Products of combustion may include, and are not limited to: oxides of carbon.

Other information: Uniform Fire Code Sensitizer: Solid

5.3. Advice for firefighters

Protection during firefighting: Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Methods and material for containment and cleaning up

For containment: Prevent further leakage or spillage if safe to do so. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up: Pick up and transfer to properly labeled containers.

6.3. Reference to other sections

See section 7 and 8 for further information on protective measures and protective clothing and equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Do not breathe dust. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
Hygiene measures: Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure Guidelines: The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>ACGIH TWA (mg/m³)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>NIOSH IDLH (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>0.1 mg/m³ (vacated)</td>
<td>IDLH: 50 mg/m³ (respirable dust) TWA: 0.05 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Cement, portland, chemicals (65997-15-1)</td>
<td></td>
<td></td>
<td>IDLH: 5000 mg/m³ TWA: 10 mg/m³ (total dust) TWA: 5 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Calcium carbonate (1317-65-3)</td>
<td></td>
<td></td>
<td>IDLH: 5 mg/m³ (respirable dust) TWA: 10 mg/m³ (total dust)</td>
</tr>
</tbody>
</table>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH: Immediately Dangerous to Life or Health

8.2. Other Exposure Guidelines: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

8.3. Exposure controls
Appropriate engineering controls: Showers, eyewash stations and ventilation systems.
Hand protection: Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.
Eye protection: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls: Maintain levels below Community environmental protection thresholds.
Other information: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Appearance: Powder
Color: Gray
Odor: Characteristic
Odor threshold: No data available
**SurFix® 928 RM**

Safety Data Sheet


pH: No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Explosion limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: No data available

Relative density: No data available

Relative vapor density at 20 °C: No data available

Specific gravity / density: No data available

Solubility: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

9.2. Other information

No additional information available.

**SECTION 10: Stability and reactivity**

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials


10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity: Not classified


Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause sensitization in susceptible persons. May cause sensitization by skin contact.

Germ cell mutagenicity: No information available.

Carcinogenicity: May cause cancer.

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>IARC group</td>
</tr>
<tr>
<td>National Toxicology Program (NTP) Status</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

Reproductive toxicity: No information available.
Specific target organ toxicity (single exposure) : No information available.
Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.
Chronic toxicity : Contains a known or suspected carcinogen. Avoid repeated exposure. Prolonged exposure may cause chronic effects.
Aspiration hazard : No information available.
Symptoms/injuries after inhalation : May cause irritation of respiratory tract.
Symptoms/injuries after skin contact : Causes skin irritation. (based on components). Prolonged contact may cause redness and irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Symptoms/injuries after ingestion : Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated packaging : Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

14.1. Department of Transportation (DOT)
In accordance with DOT. Not regulated for transport.

14.2. Additional information
Other information : No supplementary information available.
Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute health hazard</th>
<th>Chronic health hazard</th>
<th>Fire hazard</th>
<th>Sudden release of pressure hazard</th>
<th>Reactive hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.2. US State regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>
15.3. Right-To-Know regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Cement, portland, chemicals (65997-15-1)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Calcium carbonate (1317-65-3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Date of issue : 11/29/2016
Revision date : 10/15/2018
Other information : None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.