

# Safety Data Sheet



## CEMPATCH

Version 1

pg. 1

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<b>1.1 Trade Name (as labeled):</b>	CEMPATCH
Synonyms:	N/A
CAS No:	Mixture
<b>1.2 Product Use:</b>	Repair Product
<b>1.3 Company Name:</b>	<b>SpecChem</b>
Company Address:	1511 Baltimore Ave; Suite 600
Company Address Cont:	Kansas City, MO 64108
Business Phone:	(816) 968-5600
Website:	www.specchemllc.com
<b>1.4 Emergency Telephone Number:</b>	<b>VelocityEHS</b> 1-(800)255-3924 (North America) +1-813-248-0585 (International) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico)
Date of Last Revision:	February 1, 2015
Date of Current Revision:	July 1, 2018

### SECTION 2 – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a gray powder with minimal odor.  
**Health Hazards:** May cause skin and respiratory irritation and burns to the eyes. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to the lungs. Contains components that are defined as human carcinogens.  
**Flammability Hazards:** This product is not considered flammable.  
**Reactivity Hazards:** None.  
**Environmental Hazards:** The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

**US DOT Symbols** Not Regulated



**EU and GHS Symbols**

Signal Word      Danger

#### **2.1 EU Labeling and Classification:**

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

#### **EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:**

##### **Index Number:**

238-878-4 is not listed in Annex I

266-043-4 is not listed in Annex I

Substances not listed either individually or in group entries must be self classified.

## CEMPATCH

Version 1

pg. 2

**Components Contributing to Classification:**

Crystalline Silica (Quartz)/Silica Sand, Portland Cement, Calcium Aluminate, Slag

**2.2 Label Elements:****GHS Hazard Classifications:**

Skin Irritation 2  
Serious Eye Damage 1  
Skin Sensitization 1  
Carcinogenicity 1A  
Specific Target Organ Toxicity – Single Exposure 3  
Specific Target Organ Toxicity – Repeated Exposure 1

**Hazard Statements:**

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May be harmful if swallowed. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, and face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. Do not eat, drink or smoke when using this product.

**Response Statements:**

If on skin: Wash with plenty of water. Take off contaminated clothing and wash clothing before reuse. If skin irritation or rash occurs: get medical advice and/or attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easily removed and continue rinsing. Immediately call a poison center or doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed or concerned: Get medical advice and attention.

**Storage Statements:**

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal Statements:**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**2.3 Health Hazards or Risks From Exposure:**

**Hazards not otherwise classified:** Not applicable.

30.0 % of the mixture consists of ingredient(s) of unknown acute toxicity.

## CEMPATCH

Version 1

pg. 3

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.
Crystalline Silica (Quartz)/ Silica Sand	20-40%	14808-60-7
Calcium Aluminate	10-20%	65997-16-2
Slag	20-30%	65996-69-2
Portland Cement	15-25%	65997-15-1

**Note:** All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

### SECTION 4 – FIRST AID MEASURES

#### 4.1 Description of First Aid Measures:

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Give 2 cupfuls of water if victim is conscience and alert. Get medical advice/attention.

#### 4.2 Symptoms and Effects Both Acute and Delayed:

- 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 in the presence of moisture.
- Skin Contact:** Causes skin irritation. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. May cause sensitization by skin contact.
- Inhalation:** May cause respiratory tract irritation. May cause burns in the presence of moisture.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

## CEMPATCH

Version 1

pg. 4

**4.3 Recommendations to Physicians:** Symptoms may not appear immediately.

## SECTION 5 – FIRE FIGHTING MEASURES

### 5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

- Water Spray: Yes
- Foam: Yes
- Carbon Dioxide: Yes
- Powder: Yes

### 5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: Not Available  
Explosive Sensitivity to Static Discharge: Not Available

### 5.3 Special Fire-Fighting Procedures:

- Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM		HMIS RATING SYSTEM	
		HAZARDOUS MATERIAL IDENTIFICATION SYSTEM	
		HEALTH HAZARD (BLUE)	2
		FLAMMABILITY HAZARD (RED)	0
		PHYSICAL HAZARD (YELLOW)	0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			
Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard			

**CEMPATCH**

Version 1

pg. 5

**SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)****6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

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

**6.2 Methods and Materials for Containment and Clean Up:**

**Methods for Containment:** Contain spill with inert material (sand, vermiculite, etc.) and place in a suitable container. Do not flush to sewer or allow material to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Provide adequate ventilation.

**SECTION 7 - HANDLING AND STORAGE****7.1 Precautions for Safe Handling:**

Keep out of the reach of children. Store in dust-tight, dry, labeled containers. Keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. Use corrosion-resistant structural materials and lighting and ventilation systems in the storage area. (See section 10). Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

**7.2 Storage and Handling Practices:**

Avoid contact with skin and eyes. Do not swallow. Good housekeeping is important to prevent accumulation of dust. Avoid generating dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Use only in well-ventilated areas. Handle and open container with care. Do not eat or drink when using. Wash hands before eating, drinking, or smoking. (See section 8)

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Exposure Parameters:**

Ingredients	CAS No.	OSHA PEL	ACGIH TWA
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	((10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) TWA (resp)) ((30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2) TWA (total)) ((250)/(%SiO <sub>2</sub> +5) mppcf TWA (resp))	0.025 mg/m <sup>3</sup>
Portland Cement	65997-15-1	15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp)	1 mg/m <sup>3</sup> (no asbestos and <1% crystalline silica, respirable fraction)
Calcium Aluminate	10101-41-4	15 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (resp)	10 mg/m <sup>3</sup> (total); 5 mg/m <sup>3</sup> (respirable)

# Safety Data Sheet



## CEMPATCH

Version 1

pg. 6

Slag	65996-69-2	15 mg/m <sup>3</sup> TWA (total); 5 mg/m <sup>3</sup> (resp)	2 mg/m <sup>3</sup> ((total) calcium oxide)
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### **8.2 Exposure Controls:**

#### **Ventilation and Engineering Controls:**

Use adequate ventilation to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

#### **Respiratory Protection:**

A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

#### **Eye Protection:**

Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.

#### **Hand Protection:**

Wear suitable gloves.

#### **Body Protection:**

Wear suitable protective clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### **9.1 Information on Basic Physical and Chemical Properties:**

**Appearance (Physical State and Color):** Gray Powder

**Odor:** Low Odor

**Odor Threshold:** No data available

**pH:** Not Available

**Melting/Freezing Point:** No data available

**Boiling Point:** No data available

**Flash Point:** No data available

**Evaporation Rate:** No data available

**Flammability (Solid; Gas):** Not Flammable

**Upper/Lower Flammability or Explosion Limits:** No data available

**Vapor Pressure (mm Hg @ 20°C (68° F):** No data available

**Vapor Density:** No data available

**Relative Density/Specific Gravity:** 2.8 to 3.0

**Solubility in Water:** Partial

**Weight per Gallon:** No data available

# Safety Data Sheet



## CEMPATCH

Version 1

pg. 7

**Partition Coefficient (n-octanol/water):** No data available

**Auto-Ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**9.2 Other Information:** No data available

### SECTION 10 – STABILITY AND REACTIVITY

**10.1 Reactivity:**

No dangerous reaction known under conditions of normal use.

**10.2 Stability:**

Stable under conditions of normal storage and use.

**10.3 Possibility of Hazardous Reactions:**

Will not occur.

**10.4 Conditions to Avoid:**

Heat. Incompatible materials. Moisture.

**10.5 Incompatible Substances:**

Acids. Ammonium salts. Aluminum. Alkalis.

**10.6 Hazardous Decomposition Products:** May include and are not limited to: oxides of carbon.

### SECTION 11 – TOXICOLOGY INFORMATION

**11.1 Information on Toxicological Effects:**

**Toxicity Data:**

No data available

**Suspected Cancer Agent:**

Crystalline Silica (Quartz)/Silica Sand (CAS 14808-60-7) is found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore is considered to be a cancer-causing agent by these agencies.

**Irritancy:**

Skin, eye, and respiratory irritant.

**Sensitization to the Product:**

This product is expected to cause skin sensitization.

**Germ Cell Mutagenicity:**

This product does not contain ingredients that are suspected to be a germ cell mutagenic.

**Reproductive Toxicity:**

This product is not expected to be a human reproductive toxicant.

### SECTION 12 – ECOLOGICAL INFORMATION

**12.1 Toxicity:**

May cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and Degradability:**

No specific data available on this product.

**12.3 Bioaccumulative Potential:**

No specific data available on this product.

**12.4 Mobility in Soil:**

No specific data available on this product.

**12.5 Results of PBT and vPvB Assessment:** No specific data available on this product.

**12.6 Other Adverse Effects:**

No data available

**12.7 Water Endangerment Class:**

At present, there are no ecotoxicological assessments for this product.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local



# Safety Data Sheet



## CEMPATCH

Version 1

pg. 8

### 13.2 EU Waste Code:

regulations, those of Australia, EU Member States and Japan.  
Not determined

## SECTION 14 - TRANSPORTATION INFORMATION

### 14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

*This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.*

**UN Identification Number:** Not applicable

**Proper Shipping Name:** Not regulated

**Hazard Class Number and Description:** Not applicable

**Packing Group:** Not applicable

**DOT Label(s) Required:** Not applicable

**North American Emergency**

**Response Guidebook Number:** Not applicable

### 14.2 Environmental Hazards:

**Marine Pollutant:**

The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

### 14.3 Special Precaution for User:

Do not handle until all safety precautions have been read and understood.

### 14.4 International Air Transport Association

Shipping Information (IATA):

Not regulated.

### 14.5 International Maritime Organization

Shipping Information (IMO):

**UN Identification Number:**

Not applicable

**Proper Shipping Name:**

Not regulated

**Hazard Class Number and Description:**

Not applicable

**Packing Group:**

Not applicable

**EMS-No:**

Not applicable

## SECTION 15 – REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

#### **U.S. SARA Reporting Requirements:**

The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

#### **U.S. SARA 311/312:**

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity: No

#### **U.S. CERCLA Reportable Quantity:**

None

#### **U.S. TSCA Inventory Status:**

The components of this product are listed on the TSCA Inventory or are exempted from listing.

#### **Other U.S. Federal Regulations:**

None known

#### **California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):**



## CEMPATCH

Version 1

pg. 9

This product does contain "Silica, crystalline", which is on the Proposition 65 Lists.

### **15.2 Canadian Regulations:**

#### **Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

#### **Other Canadian Regulations:**

Not applicable

#### **Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### **Canadian WHMIS Classification and Symbols:**

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations



### **15.3 European Economic Community Information:**

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

#### **Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **15.4 Australian Information for Product:**

Components of this product are listed on the International Chemical Inventory list.

#### **15.5 Japanese Information for Product:**

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

#### **15.6 International Chemical Inventories:**

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

## SECTION 16 – OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is

## CEMPATCH

Version 1

pg. 10

current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

**END OF SDS SHEET**