

**Duo Patch**

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**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

<p><b>1.1 Trade Name (as labeled):</b>                  Synonyms:                  CAS No:</p> <p><b>1.2 Product Use:</b></p> <p><b>1.3 Company Name:</b>                  Company Address:                  Company Address Cont:                  Business Phone:                  Website:</p> <p><b>1.4 Emergency Telephone Number:</b></p> <p>Date of Last Revision:                  Date of Current Revision:</p>	<p>Duo Patch                  N/A                  Mixture</p> <p>Concrete repair mortar</p> <p><b>SpecChem</b>                  1511 Baltimore Ave; Suite 600                  Kansas City, MO 64108                  (816) 968-5600                  www.specchemllc.com</p> <p><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)</p> <p>February 1, 2015                  July 1, 2018</p>
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**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.

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**Components Contributing to Classification:**

Crystalline Silica (Quartz)/Silica Sand, Portland Cement, Calcium Oxide, Aluminum Sulfate

**2.2 Label Elements:**

**GHS Hazard Classifications:**

Carcinogenicity Category 2  
STOT – SE Category 3 (Respiratory System)  
Skin Irritation Category 2  
Skin Sensitization Category 1

**Hazard Statements:**

Eye Damage Category 1  
H351 Suspected of causing cancer  
H373 May cause damage to organs (Respiratory System) through prolonged or repeated exposure  
H335 May cause respiratory irritation  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H318 Causes serious eye damage

**Precautionary Statements:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace  
P270 Do not eat, drink or smoke when using this product.

**Response Statements:**

P280 Wear protective gloves/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/Doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P312 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/Doctor.

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**Storage Statements:**

P403+P233 Store in a well-ventilated place.  
 Keep container tightly closed.  
 P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container in  
 accordance with  
 local/regional/national/international regulations..

**2.3 Health Hazards or Risks From Exposure:**
**Symptoms of Overexposure by Route of Exposure:**

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

**Acute:**

Inhalation: May cause respiratory irritation.

Skin Contact: May cause irritation to skin.

Eye Contact: Contact with the eyes may cause burns or irritation.

Ingestion: May cause gastrointestinal irritation, nausea, and vomiting.

**Chronic:** Repeated exposure may cause skin dryness or cracking.

**Target Organs:**

Acute: Eyes, Skin, Respiratory

Chronic: Lung, Skin

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Crystalline Silica (Quartz)/ Silica Sand	50–70%	14808-60-7	238-878-4	Carc. 2, STOT RE2
Portland Cement	25–45%	65997-15-1	266-043-4	STOT SE3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1
Calcium Oxide	3–10%	1305-78-8	215-138-9	STOT SE3, Skin Irrit. 2, Eye Dam. 1
Aluminum Sulfate	1–4%	10043-01-3	233-135-0	STOT SE3, Skin Irrit. 2, Eye Dam. 1
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

**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:**

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.

**Skin Contact:**

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

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**Inhalation:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**Ingestion:** If product is swallowed, call physician or poison center if you feel unwell. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**Medical Conditions**  
**Generally Aggravated**  
**By Exposure:**

Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

**4.2 Symptoms and Effects Both Acute and Delayed:** Exposure to skin and respiratory may cause irritation. Contact with the eyes may cause burns. Contact with skin may cause an allergic reaction. Repeated exposure may cause damage to the lungs.

**4.3 Recommendations to Physicians:** Treat symptoms and eliminate overexposure.

**SECTION 5 – FIRE FIGHTING MEASURES****5.1 Fire Extinguishing Materials:**

Use the following fire extinguishing materials:

**Water Spray:** Yes  
**Foam:** Yes  
**Halon:** Yes  
**Carbon Dioxide:** Yes  
**Dry Chemical:** Yes  
**Other:** Any "C" Class

**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: No  
Explosive Sensitivity to Static Discharge: No

**5.3 Special Fire-Fighting Procedures:**

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.

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

NFPA RATING SYSTEM		HMIS RATING SYSTEM									
<p>Flammability</p> <p>Health      Reactivity</p> <p>Other</p>		<p>HAZARDOUS MATERIAL IDENTIFICATION SYSTEM</p> <table border="1"> <tr> <td>HEALTH HAZARD (BLUE)</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY HAZARD (RED)</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD (YELLOW)</td> <td>0</td> </tr> </table>		HEALTH HAZARD (BLUE)	2	FLAMMABILITY HAZARD (RED)	0	PHYSICAL HAZARD (YELLOW)	0		
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<p>PROTECTIVE EQUIPMENT</p> <table border="1"> <thead> <tr> <th>EYES</th> <th>RESPIRATORY</th> <th>HANDS</th> <th>BODY</th> </tr> </thead> <tbody> <tr> <td></td> <td>See Sect 8</td> <td></td> <td>See Sect 8</td> </tr> </tbody> </table> <p>For Routine Industrial Use and Handling Applications</p>				EYES	RESPIRATORY	HANDS	BODY		See Sect 8		See Sect 8
EYES	RESPIRATORY	HANDS	BODY								
	See Sect 8		See Sect 8								
<p>Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic Hazard</p>											

**SECTION 6 – ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

**6.2 Environmental Precautions:**

If liquid was introduced, construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

**6.3 Spill and Leak Response:**

**Small Spills:**

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

**Large Spills:**

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

**SECTION 7 - HANDLING AND STORAGE**

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**7.1 Precautions for Safe Handling:**

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

**7.2 Storage and Handling Practices:**

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

**7.3 Specific Uses:**

Rapid setting concrete repair mortar.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Exposure Parameters:**

Ingredients	CAS No.	OSHA PEL	NIOSH PEL	ACGIH TWA
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	TWA 0.1 mg/m3 (resp) TWA 0.3 mg/m3 (total)	Ca TWA 0.05 mg/m3	0.025 mg/m3
Portland Cement	65997-15-1	TWA 5 mg/m3 (resp) TWA 15 mg/m3 (total)	TWA 5 mg/m3 (resp) TWA 10 mg/m3 (total)	10 mg/m3 (total)
Calcium Oxide	1305-78-8	TWA 5 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3
Aluminum Sulfate	10043-01-3	TWA 2 mg/m3	TWA 2 mg/m3	TWA 2 mg/m3

**8.2 Exposure Controls:**

**Ventilation and Engineering Controls:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*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:**

Maintain airborne contaminant concentrations below guidelines listed above. Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**Eye Protection:**

Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards. Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European

**Hand Protection:**

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**Body Protection:**

Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.  
Use body protect appropriate to task being performed.  
If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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

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

**Odor:** Minimal

**Odor Threshold:** No data available

**pH:** No data 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):** No data available

**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:** No data available

**Specific Gravity:** 2.6 - 3.2

**Solubility in Water:** Miscible

**Weight per Gallon:** 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

**9.2 Other Information:** No data available

**SECTION 10 – STABILITY AND REACTIVITY**

**10.1 Reactivity:**

This product is not reactive.

**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:**

No data available.

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**10.5 Incompatible Substances:** Hydrogen fluoride.  
**10.6 Hazardous Decomposition Products:** No data available.

**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:** No data available  
**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 regulations, those of Australia, EU Member States and Japan.  
**13.2 EU Waste Code:** 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



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<p><b>North American Emergency Response Guidebook Number:</b></p> <p><b>14.2 Environmental Hazards:</b></p> <p><b>Marine Pollutant:</b></p> <p><b>14.3 Special Precaution for User:</b></p> <p><b>14.4 International Air Transport Association Shipping Information (IATA):</b></p> <p><b>14.5 International Maritime Organization Shipping Information (IMO):</b></p> <p><b>UN Identification Number:</b></p> <p><b>Proper Shipping Name:</b></p> <p><b>Hazard Class Number and Description:</b></p> <p><b>Packing Group:</b></p> <p><b>EMS-No:</b></p>	<p>Not applicable</p> <p>The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).</p> <p>None</p> <p>Not regulated.</p> <p>Not applicable</p> <p>Not regulated</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p>
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**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):**  
 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

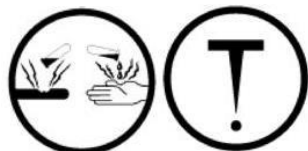
**Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:**  
 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian WHMIS Classification and Symbols:**  
 This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations

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**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 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**