# SAFETY DATA SHEET

**Patch-RX™ Concrete Repair** **Revision Date** 8/28/2023

## SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** **Patch-RX™ Concrete Repair** **Item**
Grey and White
**Product Use** Concrete Patching Compound

**Company Name** Direct Colors LLC **Office** (877) 255-2656 ext.1
430 E 10th St
Shawnee OK 74801 **Web** www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053**

## SECTION – 2 HAZARDS INFORMATION

**Pictogram**

**Classification in accordance with (29 CFR 1910.1200) US OSHA / HCS 2012 regulation**

**Signal Word** Danger

| **Hazards** | **PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS** | **HAZARD CATEGORY CLASSIFICATION** | | **CODE** |
|---|---|---|---|---|
| | Causes severe skin burns and eye damage | Category 1B | Skin & Eye (Corrosion) | H314 |
| | May cause an allergic skin reaction | Category 1 | Sensitization (Skin) | H317 |
| | Causes serious eye damage | Category 1 | Eye (Damage / Irritation) | H318 |
| | May cause allergy or asthma symptoms or breathing difficulties if inhaled | Category 1 | Sensitization (Respiratory) | H334 |
| | May cause respiratory irritation | Category 3 | STOT Single Exposure | H335 |
| | May cause cancer | Category 1A | Carcinogenicity | H350 |

| **Precautions** | **HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL** | **CODE** |
|---|---|---|
| | Do not handle until all safety precautions have been read and understood | P202 |
| | Do not breathe dust / fume / gas / mist / vapours / spray | P260 |
| | Do not get in eyes, on skin, or on clothing | P262 |
| | Wash thoroughly after handling | P264 |
| | Do not eat, drink or smoke when using this product | P270 |
| | Use only outdoors or in a well-ventilated area | P271 |
| | Wear protective gloves / protective clothing / eye protection / face protection | P280 |
| | In case of inadequate ventilation wear respiratory protection | P285 |
| | Store in a well-ventilated place, Store locked up, Keep container tightly closed | P403+P405+P233 |
| | Dispose of material in accordance with all State and Federal Guidelines and Regulations | P501 |

## SECTION – 3 COMPOSITION INFORMATION

**(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)**

| CHEMICAL NAME | COMMON NAME AND SYNONYMS | CAS # | IMPURITIES | PERCENT |
|---|---|---|---|---|
| Kaorock Kaolin | Anhydrous Aluminum Silicate | 92704-41-1 | Kaolin | 1 - 5% |
| Poly(ethylene-co-vinyl acetate) | | 24937-78-8 | | 1 - 5% |
| Portland Cement | Cement | 65997-15-1 | Calcium Sulfate <8% : Calcium Carbonate <5% ; Crystalline Silica <0.11% ; Magnesium Oxide <1.9% | 1 - 30% |

## SECTION – 4 FIRST AID MEASURES

**Eye Contact** Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room

**Skin Contact** Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

**Inhaled** Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell, call a poison center or doctor for medical attention

**Ingested** DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs

**Important Effects** Exposure can affect, lungs (if inhaled), skin

**Important Symptoms** Symptoms may include, allergic skin reactions, breathing difficulties, allergic asthmatic breathing reactions

## SECTION – 5 FIRE FIGHTING MEASURES

| | |
|---|---|
| **Extinguishing Media** | Not flammable: Use extinguishing media for surrounding fire |
| **Explosion Hazard** | Not applicable |
| **Hazardous Decomposition** | Burning or thermal decomposition can produce, carbon oxides, silicon oxides |
| **Protective Equipment** | Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear |

## SECTION – 6 ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Emergency Procedures** | Warn personnel of spill |
| **Personal Precautions** | Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill |
| **Protective Equipment** | Safety Glasses, Gloves, Dust Respirator |
| **Containment** | Prevent spill from entering the environment |
| **Clean Up Procedures** | Sweep up and place in disposal container, Mop area with clean water |
| **Disposal** | Dispose of material in accordance with all State and Federal Guidelines and Regulations |

## SECTION – 7 HANDLING AND STORAGE

| | |
|---|---|
| **Handling** | Do not get in eyes, on skin, or clothing, Avoid breathing dust, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, Empty containers retain product residue (vapors, liquid or solids) observe all precautions when handling |
| **Storage** | Keep container closed when not in use, Keep only in original container, Store away from incompatible materials |
| **Incompatible Materials** | Incompatible with, hydrogen fluoride, strong acids, strong oxidizers |

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS**

| CHEMICAL NAME | ACGIH (TWA 8) | ACGIH (STEL) | OSHA (TWA 8) | OSHA (CEIL) | NIOSH (TWA 10) | NIOSH (STEL) | Significant Exposure |
|---|---|---|---|---|---|---|---|
| Kaolin | 2 mg/m³ | | 5 mg/m³ | Total Dust 15 mg/m³ | 10 mg/m³ | 5 mg/m³ | Inhaled Dust |
| Portland Cement | 1 mg/m3 | | Total Dust 15 mg/m³ | | Total Dust 10 mg/m³ | | Dust |
| Calcium Sulfate | 10 mg/m³ | | 15 mg/m³ | | 10 mg/m³ | | Dust |

**PERSONAL PROTECTION**

**HMIS HAZARD RATINGS**

| | |
|---|---|
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| Personal Protection | E |

| | |
|---|---|
| **Eyes** | Wear safety glasses or goggles or face shield when handling / using this material |
| **Hands** | Wear chemical resistant impervious gloves when handling / using this material |
| **Lungs** | Wear a dust mask designed to protect against inhalation of dust particles or if irritation is experienced |
| **Body** | "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material |
| **Response** | Access to an eye wash station is a recommended safety precaution for handling / using this type of material |
| **Ventilation** | Ventilate to keep dusts of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved High-efficiency particulate respirator with full facepiece, The safety equipment information supplied is for general use and may not insure complete safety for the user, "Consulting with a Safety Equipment Supplier is recommended" |

## SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Flash Point** | NA | **Specific Gravity / Density** | ~ 2.70 |
| **Flammable Limits (v)** | NA | **pH (± 0.3)** | ND |
| **Auto-Ignition Temp.** | NA | **Viscosity (mm²s / cSt)** | ND |
| **Physical State** | Solid | **Melting / Freeze Point** | ND |
| **Appearance** | White to Grey powder | **Boiling Point** | ND |
| **Odor** | Light | **Vapor Density (air=1)** | ND |
| **Odor Threshold** | ND | **Vapor Pressure (mmHg)** | ND |
| **Solubility** | < 3% | **Evaporation Rate (nBuAc=1)** | ND |
| **Volatiles** | 0% | **Partition Coefficient** | ND |
| **VOC** | < 0.02% | **Molecular Weight (g/mol)** | ND |
| **LVP-VOC** | 0% | **Decomposition Temperature** | ND |

## SECTION – 10 STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | No specific test data related to reactivity available for this product or its ingredients |
| **Chemical Stability** | Stable under normal ambient and anticipated conditions of use |
| **Hazardous Polymerization** | Will not occur |
| **Conditions To Avoid** | Incompatible materials |
| **Incompatible Materials** | Incompatible with, hydrogen fluoride, strong acids, strong oxidizers |
| **Hazardous Decomposition** | Burning or thermal decomposition can produce, carbon oxides, silicon oxides |

## SECTION – 11 TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

| ACUTE | SYMPTOMS OF SINGLE OVEREXPOSURE |
|---|---|
| **Eyes** | Causes serious eye damage |
| **Skin** | May cause allergic skin reaction, Can cause serious skin damage |
| **Inhalation** | Dust may cause irritation, allergic reactions, breathing difficulties |
| **Ingestion** | May be harmful if swallowed |

| CHRONIC | SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE |
|---|---|
| **Eyes** | Causes serious eye damage |
| **Skin** | May cause allergic skin reaction, Causes serious skin damage |
| **Inhalation** | Dust can cause irritation, allergic reactions, breathing difficulties |
| **Ingestion** | May be harmful if swallowed |

**Acute Tox Calculated** **Oral:** > 5,000 mg/kg **Dermal:** > 5,000 mg/kg **Inhaled:** > 20 mg/l

**Acute Tox Category** Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

**Target Organs** Lungs, Skin, Eyes

**Medical Conditions** Preexisting, eye, skin, lung, disorders may be aggravated by exposure to this product

**Notes to Physician** Treat symptoms

**CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

| CHEMICAL NAME | NTP | ACGIH | IARC | GHS Category |
|---|---|---|---|---|
| Crystalline Silica | K (Known to be) | A2 (Suspected for human) | 1 (Proven for human) | 1A (Known human) |

**MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations above 0.1% of the following:**

| CHEMICAL NAME | Germ Cell Mutagenicity | Toxic to Reproduction |
|---|---|---|
| None Listed | NA | NA |

**COMPONENTS ACUTE TOXICITY**

| CHEMICAL NAME | Type | Form | Subject | Result Value | Exposure Time | GHS Category |
|---|---|---|---|---|---|---|
| Calcium Sulfate | LD50 | Oral | Rat | 1,581 mg/kg | | 4 (>300, ≤2000 mg/kg) |
| | LC50 | Inhaled | Rat | > 3.26 mg/l | 4 Hours (Dust ) | 4 (>1.0, ≤5 mg/l) |
| Portland Cement | LD50 | Oral | Rat | 5,000 mg/kg | | |

## SECTION – 12 ECOLOGICAL INFORMATION

| CHEMICAL NAME | Type | Subject | Subject Latin | Result Value | Exposure Time | GHS Category |
|---|---|---|---|---|---|---|
| Crystalline Silica | LD50 | Carp | (Cyprinus Carpio Linnaeus) | >10,000 mg/l | 72 Hours | 4 (>100 mg/l) |

**Presistence And Degradability** No Data Available

**Bioaccumulative Potential** No data available

**Mobility In Soil** No data available

**Other Adverse Effects** No data available

## SECTION – 13 DISPOSAL CONSIDERATIONS

**Disposal Statement** DO NOT DUMP INTO ANY STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

**Container Disposal** Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Triple rinse small empty containers then offer for recycling. If not available, puncture and dispose in a sanitary landfill

**Material Disposal** Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

**DOT CLASSIFICATION**

| UN Number | Proper Shipping Name n.o.s. ( Chemicals ) or "Limits" |
|---|---|
| Not Regulated | Not dangerous goods |

| Hazard Class | Packing Group | Label Codes | Reportable Quantity (lb) | Response | Marine Pollutant | Hazard Label | Secondary |
|---|---|---|---|---|---|---|---|
| None | None | None | None | 128 | No | | |

**Additional Info:**

## SECTION – 15 REGULATORY INFORMATION

**TSCA**

| CHEMICAL NAME | Sec 8(b) Active Inventory | Sec 8(d) Health And Safety | Sec 4(a) Chemical Test Rules | Sec 12(b) Export Notification |
|---|---|---|---|---|
| Portland Cement | Yes | | | |
| Calcium Carbonate | Yes | | | |
| Crystalline Silica | Yes | | | |
| Kaolin | Yes | | | |

**REPORTABLE QUANTITIES**

| | Extremely Hazardous | | Reportable Quantity | Emission Reporting | | |
|---|---|---|---|---|---|---|
| CHEMICAL NAME | EPCRA TPQ Sec 302 | EPCRA RQ Sec 304 | CERCLA RQ Sec 103 | TRI Sec 313 | RCRA Code | RMP TQ Sec 112r |
| None Listed | . | . | . | . | . | . |

**SARA**

| | Section 311 | Section 311 / 312 Hazards | | | | |
|---|---|---|---|---|---|---|
| CHEMICAL NAME | Hazardous Chemical | Acute | Chronic | Flammable | Pressure | Reactive |
| Crystalline Silica | Yes | | Yes | | | |

**RIGHT TO KNOW**

| | STATE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHEMICAL NAME | CA | CT | FL | IL | LA | NJ | NY | PA | MI | MN | MA | RI | WI |
| Poly(ethylene-co-vinyl acetate) | | | | | | | Yes | Yes | | | | | |
| Crystalline Silica | | | | | | Yes | | Yes | | | Yes | | |
| Kaolin | | | | | | Yes | | Yes | | | Yes | | |

**CALIFORNIA** **WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to** www.P65Warnings.ca.gov

| CHEMICAL NAME | CAS # | Birth Defects | Reproductive Harm | Carcinogen | Developmental |
|---|---|---|---|---|---|
| Crystalline Silica | 14808-60-7 | | | Yes | |
| Titanium Dioxide < 0.0001% | 13463-67-7 | | | Yes | |

**CLEAN AIR WATER ACTS**

| | | Clean Air Acts | | | Clean Water Acts | | |
|---|---|---|---|---|---|---|---|
| CHEMICAL NAME | CAS # | HAP | Ozone Class 1 | Ozone Class 2 | HS | PP | TP |
| None Listed | | | | | | | |

**INTERNATIONAL REGULATIONS** – The components of this product are listed on the chemical inventories of the following countries:

| CHEMICAL NAME | Australia | Canada | Europe (EINECS) | Japan | Korea | UK |
|---|---|---|---|---|---|---|
| Crystalline Silica | Yes | Yes | Yes | Yes | Yes | Yes |

## SECTION – 16 OTHER INFORMATION

| SDS | LEGEND DESCRIPTION |
|---|---|
| ~ | Approximately |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service Registry |
| CEIL | Ceiling Limit (15 minutes) |
| CERCL | Comprehensive Environmental Response, Compensation, and Liability Act |
| CI | Cochlear Impairment |
| CNS | Central Nervous System |
| EC50 | Concentration of a chemical that gives half-maximal response |
| EPA | Environmental Protection Agency |
| Eye | (EI = Irritation) (ED = Damage) (EV = Visual Impairment) |
| FBG | Full Bunker Gear |
| GHS | Globally Harmonized System |
| HAP | California Hazardous Air Pollutant Clean Air Act |
| HMIS-A | Safety glasses |
| HMIS-B | Safety glasses, gloves |
| HMIS-C | Safety glasses, gloves, chemical apron |
| HMIS-D | Face shield, gloves, chemical apron |
| HMIS-E | Safety glasses, gloves, dust respirator |
| HMIS-F | Safety glasses, gloves, chemical apron, dust respirator |
| HMIS-G | Safety glasses, gloves, vapor respirator |
| HMIS-H | Splash goggles, gloves, chemical apron, vapor respirator |
| HMIS-I | Safety glasses, gloves, dust and vapor respirator |
| HMIS-J | Splash goggles, gloves, chemical apron, dust and vapor respirator |
| HMIS-K | Air line hood or mask, gloves, full chemical suit, boots |
| HMIS-X | Ask Supervisor |
| HS | California Hazardous Substance under the Clean Water Act |
| IG / IH | (IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas) |
| KD | Kidney Damage (nephropathy) |
| LC50 | A concentration that is lethal to 50% of a given species in a given time |
| LD50 | Dose that is lethal to 50% of a given species by a given route of exposure |
| LEL | Lower Explosive Limit |
| LD | Liver Damage |
| NA | Not Applicable |
| ND | Not Determined |
| NE | Not Established |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit (OSHA) |
| PNS | Peripheral Nervous System |
| PP | California Priority Pollutant under the Clean Water Act |
| REL | Recommended exposure limit (NIOSH) |
| RT | Upper Respiratory Tract |
| Skin | (SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer) |
| SARA | Superfund Amendments and Reauthorization Act |
| STEL | Short Term Exposure Limit (15 minutes) |
| TC Lo | Lowest concentration that is toxic to a given species in a given time |
| TD Lo | Lowest dose that is toxic to a given species |
| TLV | Threshold Limit Value (ACGIH) |
| TP | California Toxic Pollutant under the Clean Water Act |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average (8 hours) - NOISH (10 hours) |
| UEL | Upper Explosive Limit |

Direct Colors LLC

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

**Print Date** 8/28/2023 **-- End of Safety Data Sheet --** **Supersedes Safety Data Sheet Dated**