

Quad-Flow


1. PRODUCT AND COMPANY IDENTIFICATION

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| Product Name | <ul style="list-style-type: none">Quad-Flow |
| Trade Name | <ul style="list-style-type: none">Quad-Flow |
| Company | <ul style="list-style-type: none">Quadex LLC, 564 W. 9320 S., Sandy, UT 84070 |
| Company Contact | <ul style="list-style-type: none">Matthew Peterson |
| Company Phone | <ul style="list-style-type: none">844-782-4832 |
| Emergency | <ul style="list-style-type: none">Domestic Shipments and to Canada: 1-800-633-8253International Shipments: 1-801-629-0667 |

2. HAZARDS IDENTIFICATION

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| Emergency Overview | |
| <i>OSHA Hazards</i> | <i>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</i> |
| <i>GHS Classification</i> | <ul style="list-style-type: none"><i>Skin corrosion/irritation</i> • Category 1<i>Serious eye damage/ Eye irritation</i> • Category 1<i>Skin sensitization</i> • Category 1<i>Carcinogenicity/inhalation</i> • Category 1A<i>Specific target organ toxicity: Single exposure (respiratory tract irritation)</i> • Category 3 |
| <i>Precautionary Statement(s): Prevention</i> | <ul style="list-style-type: none">Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use outdoors in a well ventilated area. Wash any exposed body parts thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated clothing must not be allowed out of the workplace. |
| <i>Response</i> | <ul style="list-style-type: none">If exposed or concerned: Immediately get medical advice/attention if you feel unwell or irritation or rash occurs. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do not induce vomiting. |

2. HAZARDS IDENTIFICATION (CONTINUED)

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| <i>Precautionary Statement(s): Storage</i> | <ul style="list-style-type: none"> Restrict or control access to stockpile areas (store locked up). Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains cement without an effective procedure for assuring safety. Store in a well ventilated area. Keep container tightly closed. |
| <i>Disposal</i> | <ul style="list-style-type: none"> Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <i>HNOC</i> | <ul style="list-style-type: none"> None known. |
| <i>Supplemental Information</i> | <ul style="list-style-type: none"> Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <i>Additional Information</i> | <ul style="list-style-type: none"> Overexposure to portland cement can cause serious, potentially irreversible skin or eye damage in the form of chemical (caustic) burns, including third degree burns. The same serious injury can occur if wet or moist skin has prolonged contact exposure to dry portland cement. |
| <i>Hazard statement(s)</i> | <ul style="list-style-type: none"> Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer. |
| <i>Signal Word</i> | <ul style="list-style-type: none"> Danger |
| <i>Pictogram</i> |  |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Cas # | Weight Concentration % |
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| <i>Portland Cement</i> | <ul style="list-style-type: none"> 65997-15-1 | <ul style="list-style-type: none"> 40-100 |
| <i>Admixtures</i> | | <ul style="list-style-type: none"> 1-15 |
| <i>Monocrystalline Quartz</i> | <ul style="list-style-type: none"> 14808-60-7 | <ul style="list-style-type: none"> 40-70 |
| <i>Polypropylene</i> | <ul style="list-style-type: none"> 9003-07 | <ul style="list-style-type: none"> 0-5 |

4. FIRST AID MEASURE

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| <i>Eye Contact</i> | <ul style="list-style-type: none"> Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Seek medical attention immediately. |
| <i>Skin Contact</i> | <ul style="list-style-type: none"> Wash skin with cool water and pH-neutral soap or mild detergent. Seek medical treatment in all cases of prolonged exposure to wet cement, cement mixtures, liquids from fresh cement products, or prolonged wet skin exposure to dry cement. |
| <i>Inhalation</i> | <ul style="list-style-type: none"> If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |

4. FIRST AID MEASURE (CONTINUED)

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| <i>Ingestion</i> | <ul style="list-style-type: none"> Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <i>Notes to Physician</i> | <ul style="list-style-type: none"> Symptoms may be delayed. |

5. FIRE FIGHTING MEASURES

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| <i>Flash point</i> | <ul style="list-style-type: none"> The product is not flammable. No unusual fire or explosion hazards noted. |
| <i>Suitable extinguishing media</i> | <ul style="list-style-type: none"> Dry chemical, CO₂, or water spray, Alcohol foam |
| <i>Firefighting (equipment instructions)</i> | <ul style="list-style-type: none"> Use water spray to cool fire-exposed surfaces, protect personnel, and extinguish the fire. For large fires use all purpose-type by manufacturer's recommended techniques. Use carbon dioxide or dry chemical media for small fires. Use approved self-contained breathing apparatus and other protective equipment and/or if conditions warrant. |

6. ACCIDENTAL RELEASE MEASURES

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| <i>Personal precautions</i> | <ul style="list-style-type: none"> Wear adequate protective clothing and equipment. |
| <i>Environmental precautions</i> | <ul style="list-style-type: none"> Do not flush into surface water or sanitary sewer system. |
| <i>Methods for containment</i> | <ul style="list-style-type: none"> Prevent entry into waterways, sewer, basements or confined areas. |
| <i>Methods for cleaning up</i> | <ul style="list-style-type: none"> Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalations of dust and contact with skin. Wear appropriate personal protective equipment. |

7. HANDLING AND STORAGE

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| <i>Handling</i> | <ul style="list-style-type: none"> Do not get this material in contact with eyes. Avoid contact with skin. Do not empty into drains. |
| <i>Storage</i> | <ul style="list-style-type: none"> Use care in handling/storage. Keep container tightly closed, and keep dry. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| <i>Skin Protection</i> | <ul style="list-style-type: none"> Prevention is essential to avoiding potentially severe skin injury. Avoid contact with unhardened Quad-Flow. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to unhardened Quad-Flow products might occur, wear impervious clothing and gloves to eliminate skin contact. Wear sturdy boots that are impervious to water to eliminate foot and ankle exposure. Do not rely on barrier carriers; barrier creams should not be used in place of gloves. Periodically wash areas that have come in contact with dry Quad-Flow, wet cement or concrete fluids with a pH neutral soap. Wash again at the end of work. If irritation occurs, immediately wash the affected area and seek treatment. If clothing becomes saturated with wet concrete, it should be removed and replaced with clean dry clothing. |
| <i>Respiratory Protection</i> | <ul style="list-style-type: none"> Avoid actions that cause dust to become airborne. Use local or general exhaust ventilation to control exposures below applicable exposure limits. Use NIOSH/MSHA approved (under 30 CFR 11) or NIOSH approved (under 42 CFR 84) respirators in poorly ventilated areas, if an applicable Exposure limit is exceeded, or when dust causes discomfort or irritation. (Advisory: Respirators and filters purchased after June 10, 1998 must be Certified under 42 CFR 84.) |
| <i>Ventilation</i> | <ul style="list-style-type: none"> Use local exhaust or general dilution ventilation to exposure with applicable limits. |
| <i>Eye Protection</i> | <ul style="list-style-type: none"> Where potentially subject to splashes or puffs of cement, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with Quad-Flow or fresh cement products. |

9. PHYSICAL & CHEMICAL PROPERTIES

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| <i>Appearance</i> | <ul style="list-style-type: none"> Grey and odorless |
| <i>Odor</i> | <ul style="list-style-type: none"> Odorless |
| <i>Color</i> | <ul style="list-style-type: none"> Grey |
| <i>Odor Threshold</i> | <ul style="list-style-type: none"> Not available. |
| <i>pH</i> | <ul style="list-style-type: none"> Not available. |
| <i>Vapor Pressure</i> | <ul style="list-style-type: none"> Not available. |
| <i>Vapor Density</i> | <ul style="list-style-type: none"> Not available. |
| <i>Boiling Point</i> | <ul style="list-style-type: none"> Not available. |
| <i>Melting Point/Freezing Point</i> | <ul style="list-style-type: none"> Not available. |
| <i>Solubility (water)</i> | <ul style="list-style-type: none"> 75% |
| <i>Specific Gravity</i> | <ul style="list-style-type: none"> 2.9 |
| <i>Relative Density</i> | <ul style="list-style-type: none"> Not available. |
| <i>Flash Point</i> | <ul style="list-style-type: none"> Not available. |
| <i>Flammability limits in air upper, % by volume</i> | <ul style="list-style-type: none"> Not available. |

9. PHYSICAL & CHEMICAL PROPERTIES (CONTINUED)

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| <i>Flammability limits in air lower, % by volume</i> | <ul style="list-style-type: none"> Not available. |
| <i>Auto-ignition temperature</i> | <ul style="list-style-type: none"> Not available. |

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

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| <i>Chemical stability</i> | <ul style="list-style-type: none"> Stable under normal conditions. |
| <i>Conditions to avoid</i> | <ul style="list-style-type: none"> Although no hazardous reactions will occur, product should be kept dry. |
| <i>Incompatible materials</i> | <ul style="list-style-type: none"> Not available. |
| <i>Hazardous Decomposition Products</i> | <ul style="list-style-type: none"> None |

11. TOXICOLOGICAL INFORMATION

*Please refer to Section 2 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

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| <i>Ecotoxicity</i> | <ul style="list-style-type: none"> No recognized unusual toxicity to plants or animals. |
| <i>Environmental effects</i> | <ul style="list-style-type: none"> An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |
| <i>Aquatic toxicity</i> | <ul style="list-style-type: none"> No data available for this product. |
| <i>Persistence and Degradability</i> | <ul style="list-style-type: none"> Not available. |

13. DISPOSAL CONSIDERATIONS

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| <i>Disposal Instructions</i> | <ul style="list-style-type: none"> Dispose in sanitary land fill in accordance with federal, state, and local regulations. |
| <i>Waste from residues / unused products</i> | <ul style="list-style-type: none"> Not applicable. |

14. TRANSPORT INFORMATION

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| <i>DOT</i> | <ul style="list-style-type: none"> Not regulated as dangerous goods. |
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15. REGULATORY INFORMATION

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| <i>US federal regulations</i> | <ul style="list-style-type: none"> This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable. |
| <i>Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)</i> | <ul style="list-style-type: none"> Not regulated. |

15. REGULATORY INFORMATION (CONTINUED)

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| <i>DEA Essential Chemical Code Number</i> | <ul style="list-style-type: none"> Not regulated. |
| <i>Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))</i> | <ul style="list-style-type: none"> Not regulated. |
| <i>DEA Exempt Chemical Mixtures Code Number</i> | <ul style="list-style-type: none"> Not regulated. |
| <i>CERCLA (Superfund) reportable qty</i> | <ul style="list-style-type: none"> None |
| <i>Superfund Amendments and Reauthorization Act of 1986 (SARA)</i> | <ul style="list-style-type: none"> Hazard categories : Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No |
| <i>Section 302 extremely hazardous substance</i> | <ul style="list-style-type: none"> No |
| <i>Section 311 hazardous Chemical</i> | <ul style="list-style-type: none"> No |

16. OTHER INFORMATION

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| <i>Further</i> | <ul style="list-style-type: none"> HMIS® is a registered trade and service mark of the NPCA. |
| HMIS® Ratings | |
| <i>Health</i> | <ul style="list-style-type: none"> 2 |
| <i>Flammability</i> | <ul style="list-style-type: none"> 0 |
| <i>Physical hazard</i> | <ul style="list-style-type: none"> 0 |
| NFPA Ratings | |
| <i>Health</i> | <ul style="list-style-type: none"> 2 |
| <i>Flammability</i> | <ul style="list-style-type: none"> 0 |
| <i>Instability</i> | <ul style="list-style-type: none"> 0 |
| <i>Disclaimer</i> | <ul style="list-style-type: none"> The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. |
| <i>Issue Date</i> | <ul style="list-style-type: none"> Not available. |
| <i>This Data Sheet Contains</i> | <ul style="list-style-type: none"> Product and Company Identification: Synonyms changes from the previous Physical & Chemical Properties: Multiple Properties version in section(s): Transport Information: Material Transportation Information Regulatory Information: United States. |