



QUAD-FLOW SAFETY DATA SHEET



**REPAIR
MATERIALS**

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name	QUAD-FLOW
Version	01
Revision Date	01-2020
Manufacture	Quadex®
Address	Quadex LLC, 564 W. 9320 S., Sandy, UT 84070
Manufacture	Quadex®
Address	18150 Imperial Valley Drive, Houston, TX 77060
Email	info@vortexcompanies.com
Hours of Operation	8:00am – 5:00pm
Quadex General Assistance	713-750-9081
Emergency	Domestic Shipments and to Canada: 1-800-633-8253 International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

Emergency Overview	
OSHA Hazards	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification	
Skin corrosion/irritation	Category 1
Serious eye damage/ Eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity/inhalation	Category 1A
Specific target organ toxicity - Single exposure (respiratory tract irritation)	Category 3

GHS Label elements, including precautionary statements:

Pictogram



Signal Word

Danger

Hazard statement(s)

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer.

Precautionary statement(s):

Prevention

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.

Response

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.

Storage

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.

Disposal

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

HNOC

None known.

Supplemental Information

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

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Cas #	Percent
Portland Cement	65997-15-1	40-100
Admixtures		1-15
Monocrystalline Quartz	14808-60-7	40-70
Polypropylene	9003-07	0-5

4. FIRST AID MEASURE

First aid procedures

Eye Contact

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.

Skin Contact

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.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

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.

Notes to physician

Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Flash point

The product is not flammable. No unusual fire or explosion hazards noted.

Suitable extinguishing media

Dry chemical, CO₂, or water spray, Alcohol foam

Firefighting (equipment instructions)

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

Personal precautions

Wear adequate protective clothing and equipment.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for containment

Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up

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

Handling

Do not get this material in contact with eyes. Avoid contact with skin. Do not empty into drains.

Storage

Use care in handling/storage. Keep container tightly closed, and keep dry.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Skin Protection	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.
Respiratory Protection	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.)
Ventilation	Use local exhaust or general dilution ventilation to exposure with applicable limits.
Eye Protection	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

Appearance	Grey and odorless.
Color	Grey
Odor	Odorless
Odor threshold	Not available.
pH	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Boiling Point	Not available.
Melting Point/Freezing point	Not available.
Solubility (water)	75%
Specific Gravity	2.9
Relative Density	Not available.
Flash Point	Not available.
Flammability limits in air upper, % by volume	Not available.
Flammability limits in air lower, % by volume	Not available.
Auto-ignition temperature	

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability	Stable under normal conditions.
Conditions to avoid	Although no hazardous reactions will occur, product should be kept dry.
Incompatible materials	Not available.
Hazardous decomposition Products	None

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	No recognized unusual toxicity to plants or animals.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Aquatic toxicity	No data available for this product.
Persistence and Degradability	Not available.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions	Dispose in sanitary land fill in accordance with federal, state, and local regulations.
Waste from residues / unused products	Not applicable.

14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
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15. REGULATORY INFORMATION

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)	Not regulated.
DEA Essential Chemical Code Number	Not regulated.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	Not regulated.
DEA Exempt Chemical Mixtures Code Number	Not regulated.
CERCLA (Superfund) reportable qty	None
Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous Chemical	No

16. OTHER INFORMATION

Further information

HMIS® ratings

NFPA ratings

Disclaimer

Issue date

This data sheet contains

HMIS® is a registered trade and service mark of the NPCA.

Health: 2

Flammability: 0

Physical hazard: 0

Health: 2

Flammability: 0

Instability: 0

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.

Not available.

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.