



HYPERFORM[®]

SAFETY DATA SHEET



**REPAIR
MATERIALS**

A VORTEX COMPANY

1. PRODUCT AND COMPANY IDENTIFICATION

Material Name	HYPERFORM[®]
Version	02
Revision Date	06-2020
CAS#	Mixture
Product Use	Vertical and overhead repairs to concrete or masonry sewer structures.
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
24 Hour Emergency	24-Hour Emergency Contact: (Infotrac) 800-535-5053 USA International Emergency Contact: 352-232-3500

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

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 off with plenty of soap and water. Get medical attention if irritation develops and persists.

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician

Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Flammable properties

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

Extinguishing media

Dry chemical, CO₂, or water spray. Alcohol foam.

Suitable extinguishing media

Dry chemical, CO₂, or water spray.

Alcohol foam

In the event of fire, use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Specific methods

None available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep unnecessary personnel away. Keep upwind.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material.

Methods for cleaning up

Shovel into labeled waste container for reuse or disposal. Wear adequate protective equipment. Area may be washed down with water.

7. HANDLING AND STORAGE

Handling

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

Storage

Store in dry place and keep sealed until ready to use.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components

Type

Value

Form

Portland Cement

TWA

10 mg/m³

Admixtures

TWA

10 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
N/A			

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
N/A			

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection

Do not get in eyes. Chemical goggles are recommended.

Skin protection

Avoid contact with the skin. Wear protective gloves. Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use NIOSH/MESHA respirators.

General hygiene considerations

Do not get in eyes. Avoid contact with skin.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Powder
Form	Viscous Powder
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)	Slight (0.01 - 1.0%)
Specific Gravity	3.15
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	
Other data	

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

Toxicological data	
Components	Test Results / None
Local effects	Irritating to skin. Contact may irritate or burn eyes.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
Carcinogenicity	None

12. ECOLOGICAL INFORMATION

Toxicological data	
Components	Test Results / Not available
Ecotoxicity	Not available.
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 unused products.

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
Section 311 hazardous Chemical

No
No

16. OTHER INFORMATION

Further information
HMIS® ratings

HMIS® is a registered trade and service mark of the NPCA.
Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 0
Instability: 0

Disclaimer

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.

Issue date
This data sheet contains

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.