

Material Safety Data Sheet

Date Updated: 8/12/13

P/N 68000025

Revision: B1

Section 1 – Product and Company Information

Product Name: Hydration Fluid Concentrate
Part Number: 89000005 & TPZ-R-HDF

Company: Fluidigm Corporation
Street Address: 7000 Shoreline Court, Suite 100
City, State, Zip, Country: South San Francisco, CA 94080, USA
Technical Phone: (650) 266-6000

Section 2 – Composition Information on Ingredient

Percentage	Ingredient Name	CAS #
60.0%	Glycerol	56-81-5
39.8%	Water	7732-18-5
0.2%	Benzalkonium Chloride	8001-54-5

Section 3 – Hazards Identification

POTENTIAL HEALTH EFFECTS:

Irritant
Irritating to eyes and skin

HMIS Rating

Health: 1
Flammability: 0
Reactivity: 1

NFPA Rating

Health: 1
Flammability: 0
Reactivity: 1

Section 4 – First Aid Measures

Ingestion:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin:

In case of contact, immediately wash skin with soap and copious amounts of water.

Inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen and call a physician.

Eyes:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 – Fire Fighting Measures

Autoignition Temperature: Not Available
Flash Point: Not Available
Flammability Limits: Not Available

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Extinguishing Media:	Water spray. Carbon dioxide – Dry chemical powder or appropriate foam
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes
Unusual Fire and Explosion Hazards:	Emits toxic fumes under fire conditions

Section 6 – Accident Release Measures

Wear respirator, chemical safety glasses, rubber boots and heavy rubber gloves
Sweep up, place in a bag and hold for waste disposal
Avoid raising dust
Ventilate area and wash spill site after material pickup is complete
Sweep together the wetted material carefully and fill into marked, sealed containers

Section 7 – Handling and Storage

Precautions to be taken in handling and storage:
Avoid inhalation, contact with eyes, skin and clothing
Do not breathe vapor
Avoid prolonged or repeated exposure
Wash thoroughly after handling
Keep tightly closed and store in a cool, dry place

Section 8 – Exposure Controls / PPE

Engineering Controls:	Safety shower and eye bath, mechanical exhaust required
Respiratory Protection:	NIOSH/MSHA-approved respirator
Protective Gloves:	Compatible chemical-resistant gloves
Eye and Face Protection:	Chemical safety glasses
Other Protective Equipment:	None known
General Hygiene Measures:	Wash thoroughly after handling

Section 9 – Physical and Chemical Properties

APPEARANCE:					
Physical State:	Liquid	Color:	Colorless	Odor:	None

OTHER PROPERTIES:	
pH:	5.5-8
Boiling Point:	Not Available
Melting Point:	Not Available
Freezing Point:	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Odor Threshold:	Not Available
Volatile %:	Not Available
Evaporation Rate:	Not Available

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Solubility in Water (20° C):	Soluble
Flash Point:	Not Available
Explosion Limits:	Not Available
Swiss Poison Class:	Not Available

Section 10 – Stability and Reactivity

Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide
Incompatibility (Materials to Avoid):	Strong bases, Strong oxidizing agents
Conditions to Avoid:	None known

Section 11 – Toxicological Information

Special Hazard Information on Components:

- May cause skin irritation
- May be harmful if absorbed through the skin
- May cause eye irritation
- May be harmful if inhaled
- May be irritating to mucous membranes and upper respiratory tract
- May be harmful if swallowed
- Prolonged exposure can cause: Nausea, headache, and vomiting
- Target Organs – Kidneys

Section 12 – Ecological Information

Ecological Information:	No data available
Chemical Fate Information:	No data available

Section 13 – Disposal Considerations

Disposal Method:

Disposal should be made in accordance with federal, state, and local regulations.
Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations.

Section 14 – Transport Information

DOT Shipping Name:	None
DOT Hazard Class:	Non-hazardous for transport
DOT Label(s):	Not Available
UN/NA Number:	Not Available
Placards:	None
Air Shipment (IATA):	Non-hazardous for air transport
Ocean Shipment (IMO IMDG-code):	Not regulated for ocean transport
EMS No.:	Not Available
European Class:	Not Available
RID (OCTI):	Not Available

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ADR (ECE):

Not Available

RAR (IATA):

Not Available

Section 15 – Regulatory Information

EU Additional Classification**Symbol of Danger:** Xi**Indication of Danger**

Irritant

Risk Statements R: 36/38

Irritating to eyes and skin

Safety Statements S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text**Indication of Danger**

Irritant.

Risk Statements

Irritating to eyes and skin

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Statements

Target organ(s): Kidneys

Handling and Storage:

Hygroscopic

United States Regulatory Information**SARA 313 Listed:** No**TSCA Inventory Item:** Yes

Section 16 – Other Information

For Research Use Only. Not for use in diagnostic procedures.

This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. Fluidigm Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.