Control Number: 907-058

PFA##, PFR##, PFI##, FRR7311A



January 22, 2018

# 1. Product and Company Identification

Product(s) FISH Probes (HFA###, HFR###, CFA###, CFR###, CFI###, PFA###, PFR###,

PFI###)

FISH Hybridization Buffer (FRR7311A)

Related Product Kit Not Applicable

Intended Use & FISH reagent intended for use by professional laboratory personnel that have been

**Restrictions** properly trained in its use.

Company Information Biocare Medical, LLC

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24-Hour Emergency CHEMTREC

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#### 2. Hazards Identification

**Emergency Overview** Harmful solution containing formamide; may be toxic.

Avoid contact with eyes and skin.

Wear gloves, lab coat, and eye protection.

OSHA Hazards Target Organ Effect, Irritant, Teratogen, Reproductive hazard, Mutagen

Target Organs: Blood

**GHS Classification** Signal words, Symbol, Hazard & **Precautionary Statements** 



#### Danger

Carcinogenicity (Category 2)

Reproductive toxicity (Category 1B)

Specific target organ toxicity - repeated exposure, Oral (Category 2), Blood

Hazard statement(s)

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P281 Use personal protective equipment as required.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant

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#### **Potential Health Effects**

Skin Contact May be harmful if exposed to skin. Cause skin irritation. May cause itching, redness or

inflammation.

Eye Contact May be harmful if exposed to eyes. Causes cause eye irritation. May cause watering

eyes, stinging or burning sensation.

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. May cause headache,

dizziness, nausea or coughing.

Ingestion May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or

vomiting.

See Section 11: Toxicological Information for additional information.

**Environmental Effects** Toxic to aquatic life.

See Section 12: Ecological Information for additional information.

3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
Formamide	Formic Acid	50%	75-12-7
Dextran Sulfate	Dextran Sodium Sulfate	10%	9011-18-1

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

## 4. First Aid Measures

**General Advice** Avoid further exposure to product. Consult a physician.

In case of skin contact Wash exposed area with soap and plenty of water. Remove any contaminated clothing.

Seek medical attention.

In case of eye contact Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses.

Be sure to wash under eyelids. Seek medical attention.

If inhaled Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration.

Seek medical attention.

If swallowed If victim is conscious, rinse mouth with water. Do not give anything to an unconscious

victim. Seek medical attention.

#### 5. Fire Fighting Measures

Suitable Extinguishing Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Media** Use extinguisher media appropriate for surrounding fire.

Special Protective
Equipment for
Eirefightors

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin

Firefighters prevent contact with eyes and skill

Special Exposure
Hazards

Avoid inhalation of fumes, which may be toxic or irritating.

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#### 6. Accidental Release Measures

Personal Precautions Use of personal protective equipment is recommended as described in Section

8. Isolate hazard area and deny entry to unprotected personnel

Environmental Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers,

Precautions ditches and waterways.

**Methods for containment** Small spills may be contained and cleaned-up with paper towels or absorbent

and clean up pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

## 7. Handling and Storage

Precautions for Safe Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly

Handling after use.

Conditions for Safe Keep container tightly closed. Keep container in a cool, well-ventilated area, and

Storage away from light.

#### 8. Exposure Controls / Personal Protection

Permissible Exposure USA ACGIH Threshold Limit Values (Formamide): TWA 10 ppm

Limits USA NIOSH Recommended Exposure Limits (Formamide): TWA 10 ppm, 15 mg/m<sup>3</sup>

Engineering Controls No special controls needed.

**Personal Protective Equipment** 

Eye Protection Wear chemical splash goggles and face shield when eye and face contact is possible

due to splashing or spraying of material.

**Skin Protection** Use chemically resistant gloves and a lab coat with sleeves.

Respiratory Protection Exceeding exposure limits is unlikely during normal usage. However, if irritating

vapors are produced, respiratory protection is recommended. Attempt to reduce

exposure levels to an acceptable range.

General Hygiene Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and

Measures before eating or drinking.

#### 9. Physical and Chemical Properties

**Appearance** Clear solution. May be colorless or colored (pink, purple, orange, yellow),

depending upon the specific product.

Odor None

pH (as supplied) No data available

Melting point No data available

Boiling point No data available

Flash point No data available

Flammability No data available

Lower explosion limit No data available

Upper explosion limit No data available

Vapor pressure No data available

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Vapor density No data available Specific gravity No data available

Solubility (in water) Soluble

Partition coefficient

(n-octanol/water)

Auto-ignition temperature No data available

Decomposition

Temperature No data available

# 10. Stability and Reactivity

Chemical Stability Stable under recommended storage conditions (see Section 7).

Conditions to avoid Direct light.

Materials to avoid Oxidizing agents, acids, bases.

Hazardous decomposition Hazardous decomposition products formed under fire conditions: carbon

products monoxide, carbon dioxide, nitrogen oxides.

Possibility of hazardous None identified.

reactions

## 11. Toxicological Information

Acute dose effects Formamide:

LD50 Oral – rat – 5325 mg/kg LC50 Inhalation – rat – 4h – 21 mg/L LD50 Dermal – rat – >3000 mg/kg

Dextran Sulfate:

LD50 Oral- Mouse -25200 mg/kg LD50 Oral -Rat- 20600 mg/kg LD50 Intravenous -Rat -473 mg/kg

Repeat dose effects No data available

Skin irritation No data available

Skin and respiratory \_

sensitization Formamide: Did not cause sensitization on laboratory animals

**Eye irritation** Formamide: Eyes – rabbit – Mild eye irritation

Carcinogenicity No component of this product present at levels greater than or equal to

0.1% is identified as a probable, possible, potential, known,

anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity Formamide: in vivo tests showed mutagenic effects

Reproductive effects Formamide: Reproductive toxicity - rat - oral; may cause reproductive

disorders.

**Developmental effects** Formamide: Developmental toxicity – rat – skin; may cause congenital

malformation in the fetus, presumed human reproductive toxicant

Target organ effects Formamide: Oral - May cause damage to organs through prolonged or

repeated exposure. - Blood

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

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# 12. Ecological Information

**Ecotoxicity** Formamide:

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 6569 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h

Toxicity to algae - Desmodesmus subspicatus (green algae) – statis test

EC50 >500 mg/l - 72 h

Toxicity to bacteria - Respiration inhibition EC50 - Sludge Treatment - > 1,000

mg/l - 30 min

Persistence and Formamide: aerobic - Exposure time 28 d

**degradability** Result: 99 % - Readily biodegradable

Bioaccumulation/ accumulation

No data available

Mobility in environmental

media No data available

Other hazardous effects No data available

## 13. Disposal Considerations

Product Disposal should be in accordance with applicable national, state, and local laws and

regulations. Local regulations may be more stringent than national or state

requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste

disposal service for appropriate methods of disposal.

**Contaminated packaging** Dispose of as unused product.

#### 14. Transportation Information

Proper shipping name Not applicable

Technical name Not applicable

Hazard class Not applicable

Identification number Not applicable

Packing group Not applicable

DOT (US) Not applicable

IMDG Not applicable

.... Hot applicable

IATA Not applicable

TDG Not applicable

#### 15. Regulatory Information

#### **Inventory Status**

United States (TSCA) All ingredients are on the inventory or exempt from listing.

Canada (DSL / NDSL) All ingredients are on the inventory or exempt from listing.

**SARA 302 Components** No chemicals in this product are subject to reporting requirements.

**SARA 313 Components** No chemicals in this product are subject to reporting requirements.

SARA 311/312 Hazards Acute health hazard, Chronic health hazard

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**California Prop. 65** This product does not contain any chemicals known to the State of California to components cause cancer, birth defects, or any other reproductive harm.

#### 16. Other Information

Sources and Suitability The above information was obtained from sources available at the time of

revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact

with the above product.

Revision Date January 22, 2018

(All SDS's before this date should be discarded.)

Replaces Revision April 5, 2017. This SDS has been updated to reflect current hazard information

and product formulations.

Note: Before using this product, please visit the Biocare Medical website

at http://biocare.net for the current version of this SDS