

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name HCR™ IF 2° Antibody Probe

1.2 Product identified uses of the substance or mixer and uses advised against

Identified uses For research use only. Not for diagnostic use.

1.3 Details of the supplier of the data sheet

Supplier Molecular Instruments, Inc.
5015 Eagle Rock Blvd Suite 301
Los Angeles, CA 90041
Tel: (626) 210-2600

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance of mixture

2.2 GHS label elements including precautionary statements

Not a hazardous substance of mixture

2.3 Other hazards not covered by GHS

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixtures

3.2 Dangerous Components

Chemical Name	CAS-No	EINECS-No	Weight %
Glycerol	56-81-5	200-289-5	30-60
Sodium azide	26628-22-8	247-852-1	0-0.2

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General information	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation	Allow victim to breath fresh air. Allow the victim to rest. Get medical attention if symptoms occur.
Ingestion	Rise mouth. Do not induce vomiting without medical advice. Consult a physician.
Skin Contact	Rise immediately with plenty of water. Get medical attention if symptoms occur.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses if present.

4.2 Most important symptoms and effects, both acute and delayed

May cause slight skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Alcohol-resistant foam, water spray, carbon dioxide (CO ₂), dry chemical.
5.2 Special hazards	Not known.
5.3 Advice for fire fighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure to vapors, mist, or gas. Ensure adequate ventilation. Always use personal protection equipment. Avoid contact with skin, eyes, and clothing.

6.2 Environmental Precautions

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods and material for containment and clean up

Soak up with inert absorbent material. Place used material into appropriate containers for disposal. Clean contaminated area thoroughly.

6.4 Reference to other sections

Wear personal protective equipment as described in Section 8 of the safety data sheet.

SECTION 7. HANDLING AND STORAGE
7.1 Precautions for safe handling

Provide good ventilation in the process area. Always wear recommended personal protective equipment. Avoid contact with skin, eyes, and clothing.

7.2 Conditions for safe storage, including and incompatibles

Keep container tightly closed in a dry and well-ventilated place. Keep away from combustible material as well strong acids and strong bases.

7.3 Specific end use(s)

For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters

Exposure Limits

Contains no substances with occupational exposure limit values.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium azide	Ceiling: 0.29 mg/m ³ NaN ₃ Ceiling: 0.11 ppm Hydrazoic acid vapor	(vacated) S* (vacated) Ceiling: 0.1 ppm HN ₃ (vacated) Ceiling: 0.3 mg/m ³ NaN ₃	Ceiling: 0.1 ppm HN ₃ Ceiling: 0.3 mg/m ³ NaN ₃

Chemical Name	Brazil - OEL - TWAs (LTs)	Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations
Sodium azide	None	None	None

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand Protection

Wear impervious chemical resistant gloves.

Eye Protection

Wear safety glasses with side shields or goggles.

Skin and Body Protection

Lightweight protective clothing.
Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls
Should not be released in the environment. Prevent product from entering drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Odor:	No information available
Odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	No information available
Initial boiling point and boiling range:	No information available
Flash point:	No information available
Evaporation rate:	No information available
Flammability rate:	No information available
Upper/lower flammability or explosive limits:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Relative density:	No information available
Solubility(ies):	No information available
Partition coefficient:	No information available
Auto-ignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use

10.6 Hazardous decomposition products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects

Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat/mouse)
Glycerol	12600 mg/kg	>10 g/kg	>2.75 mg/L/4h
Sodium azide	27 mg/kg (rat)	50 mg/kg (rat) 20 mg/kg (rabbit)	Not Listed

Principle Routes of exposure

Inhalation

May be harmful inhaled

Ingestion

May be harmful if swallowed

Skin contact

May cause skin irritation in susceptible persons

Eye contact

May cause eye irritation in susceptible persons

Carcinogenetic effects

None

Mutagenic effects

None

Reproductive toxicity

None

Sensitization

None

Target organ effects

None

Other adverse effect

None

SECTION 12. ECOLOGICAL INFORMATION
12.1 Ecotoxicity

Chemical Name	Freshwater algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	Log Pow
Glycerol		Daphnia magna EC50 >500 mg/L (24h)	Oncorhynchus mykiss LC50 51-57 mL/L (96h)		

12.2 Persistence and degradability

No information available

12.3 Bioaccumulation potential

No information available

12.4 Mobility in the soil

No information available

12.5 Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product shall comply with all the requirements of all applicable local, regional, national/federal regulations.

SECTION 14. TRANSPORT INFORMATION
14.1 UN number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport shipping name Not applicable

14.4 Packaging group Not applicable

14.5 Environmental hazards Not applicable

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories.

Chemical Name	CAS-No	Weight %	SARA 313 Threshold Values
Sodium azide	26628-22-8	0-0.2	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard no

Chronic Health Hazard no

Fire Hazard no

Sudden Release of Pressure Hazard no

Reactive Hazard no

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain HAPs.

US State Regulations

Chemical Name	Massachusetts-RTK	New Jersey-RTK	Pennsylvania-RTK	Illinois-RTK	Rhode Island-RTK
Glycerol	Listed	Listed	Listed	-	Listed

California Proposition 65

This product does not contain any Proposition 65 chemicals.

SECTION 16. OTHER INFORMATION**Abbreviations and acronyms**

TWA - Time-Weighted Average

OELs - Occupational Exposure Limits

STEL - Short Term Exposure Limit

OSHA - Occupational Safety and Health Administration of the US Department of Labor

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - National Institute for Occupational Safety and Health

Disclaimer

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