SECTION 1: IDENTIFCATION

1.1 Product Identifier

Product Name	HCR™ HiFi Antibody Block

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 IDENTFICATION

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. COMPSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixtures

3.2 Dangerous Components

Chemical Name	CAS-No	EINECS-No	Weight %
Triton X-100	9002-93-1	618-344-0	<1%
Modified alkyl carboxylate	-	-	<1%
Mixture of 5-Chloro-2-Methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)	55965-84-9	911-418-6	<1%

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. Drink plenty of water. Consult a physician.
Skin Contact	Rise immediately with plenty of water. Get medical attention if symptoms occur.
Eye Contact	Flush immediately with plenty of water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses if present.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in Section 2.2 and/or in Section 11.

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

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Water fog. Carbon dioxide (CO2). Foam. Dry extinguishing powder.
5.2 Special hazards	Carbon oxides. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors possible in the event of fire.
5.3 Advice for fire fighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.3 Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEAURES

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection, see Section 8.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up with liquid-absorbent and neutralizing material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal, see Section 13.

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. Keep away from food and drink. Protect pressurized gas bottles against overturning.

7.3 Specific end use(s)

For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2 Exposure controls

General protection and hygiene measures:

When using, do not eat, drink, smoke, sniff.
Wash hands before breaks and after work.
Apply skin care products after work.
Wash contaminated clothing prior to reuse.

Personal protection equipment:

Wear Protective gloves/protective clothing and eye/face protection. Only wear fitting, comfortable, and clean protective clothing.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection:

Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 374.

Eye/face protection:

Tightly sealed safety glasses.

Body protection:

Wear suitable protective clothing.

Environmental exposure controls:
Should not be released in the environment. Prevent product from entering drains.

SECTION 9. PHYICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Odor:	No information available
Oder 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
No information available

10.2 Chemical Stability
Stable under normal conditions

10.3 Possibility of hazardous reactions
No information available

10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
Oxidizing agents. Reducing agents.

10.6 Hazardous decomposition products
No information 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)
Triton X-100	1900-5000 mg/kg (rat)	>3000 mg/kg (rabbit)	Not Listed
Modified alkyl carboxylate	Not Listed	Not Listed	Not Listed
Mixture of 5-Chloro-2-Methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)	66 mg/kg (rat)	87.12 mg/kg (rabbit)	0.171 mg/L (4h) Aerosol

Principle Routes of exposure

Inhalation	May be harmful inhaled .
Ingestion	May be harmful if swallowed.
Skin contact	Frequently or prolonged contact with skin may cause dermal irritation.
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	Log Pow
Triton X-100	EC50 1.9 mg/L (96h) Pseudokirchneriella subcapitata	EC50 0.011 mg/L (48h) Daphnia magna	LC50 0.26 mg/L (96h) Leuciscus idus	-
Modified alkyl carboxylate	-	-	-	-
Mixture of 5-Chloro-2-Methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)	-	LC50 0.18 mg/L (48h) Daphnia magna NOEC 0.1 mg/L (21d) Daphnia magna	LC50 0.19 mg/L (96h) Oncorhynchus mykiss NOEC 0.098/mg L (35d) Oncorhynchus mykiss	

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

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right to Know
No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern
Product does not contain any listed chemicals.

Vermont Chemicals of High Concern
Product does not contain any listed chemicals.

Washington Chemicals of High Concern
Product does not contain any listed 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

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