SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name	HCR™ Pro Detect 2-Plex D

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.3 Details of the supplier of the data sheet

Company	Molecular Instruments, Inc. 5015 Eagle Rock Blvd Suite 301 Los Angeles, CA 90041
Telephone	+1 626 210 2600

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Label elements including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards

None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixtures.

3.2 Dangerous Components

Chemical Name	CAS No	EINECS No	Weight %
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)	55965-84-9	205-358-3	0.0015-0.06

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	Rinse mouth. Do not induce vomiting without medical advice. Drink plenty of water. Consult a physician.
Skin Contact	Rinse 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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use high volume water jet.
5.2 Special hazards	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for fire fighters	Wear self-contained breathing apparatus and protective suit.
5.4 Further information	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Always use personal protection equipment. Avoid dust formation. Avoid breathing dust.

6.2 Environmental Precautions
No special environmental protection measures are necessary.

6.3 Methods and material for containment and clean up
Absorb with liquid-binding material (e.g., sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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 any incompatibles

Store at 2-8°C under sterile conditions. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from food and drink.

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

Personal Protective 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 Protection	Tightly sealed safety glasses.
Skin and Body Protection	Wear suitable protective clothing.
Environmental exposure controls	Refer to Section 6. No further action is necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid.

9.2 Other information

No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
Exposure to light and heat.

10.5 Incompatible materials
No data available.

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)
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)	66 mg/kg	87.12 mg/kg	0.171 mg/L (aerosol; 4 h)

Principle Routes of exposure
Potential Health Effects

Inhalation	May be harmful if 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	No data available.
Reproductive toxicity	No data available.
Sensitization	No data available.
Target organ effects	No data available.
Other adverse effect	No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data
Mixture of 5-Chloro-2- methyl-4-isothiazolin-3-one and 2-Methyl-2H - isothiazol-3-one (3:1)	-	LC50: 0.18 mg/L (48 h) (D. magna) NOEC: 0.1 mg/L (21 d) (D. magna)	LC50: 0.19 mg/L (96 h) (O. mykiss) NOEC: 0.098 mg/L (35 d) (O. mykiss)

12.2 Persistence and degradability

Components:
Mixture of 5-Chloro-2- methyl-4-isothiazolin-3- one and 2-Methyl-2H - isothiazol-3-one (3:1):

Biodegradability:
Aerobic: 3%
Inoculum: activated sludge
Concentration: 0.003 mg/L
Result: Not rapidly biodegradable
Biodegradation: 62%
Exposure time: 29 d
Method: OECD Test Guideline 301B
GLP: Yes
Remarks: The 10 day time window criterion is not fulfilled.

12.3 Bioaccumulation potential

Components:
Mixture of 5-Chloro-2- methyl-4-isothiazolin-3- one and 2-Methyl-2H - isothiazol-3-one (3:1):

Partition coefficient: n-octanol/water
Pow: 0.326 (75 °F / 24 °C)
Method: OECD Test Guideline 107
GLP: Yes
Remarks: Bioaccumulation is not expected.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data 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

IATA/ADR/DOT-US/IMDG

Not dangerous goods. Not regulated by transport regulations.

14.1 UN number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packaging group	Not applicable
14.5 Environmental hazards	Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

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 311/312

No SARA Hazards.

SARA 313

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

Clean Air Act

This product does not contain any hazardous air pollutants, as defined by the US Clean Air Act.

Clean Water Act

This product does not contain any hazardous substances listed under the US Clean Water Act.

15.2 Chemical safety assessment

No data available.

SECTION 16. OTHER INFORMATION

Disclaimer

The above information is believed to be correct but shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since Molecular Instruments, Inc. cannot control the actual methods, volumes, or conditions of use, Molecular Instruments, Inc. shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this safety data sheet (SDS) does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose. See www.hcrimaging.com/legal/terms for our terms of sale.