SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name	HCR™ RNA-CISH Amplification 3

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

USA GHS, category 5 hazardous mixture

2.2 Label elements including precautionary statements

May be harmful if swallowed. If swallowed call a poison center/doctor/physician if you feel unwell.

2.3 Other hazards

May be harmful by inhalation, ingestion, or skin adsorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge the toxicological properties have not been thoroughly investigated.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

USA GHS, category 5 hazardous mixture

3.2 Dangerous Components

Chemical Name	CAS-No	EINECS-No	Weight %
Sodium Azide	26628-22-8	247-852-1	0.02-0.04

Actual concentration is withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information	Move to fresh air. If you feel unwell, seek medical advice. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
Inhalation	Move to fresh air. Consult a physician if inflammation occurs. If unconscious, place in recovery position and seek medical advice.
Ingestion	Rinse mouth. Consult a physician. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Skin Contact	Rinse immediately with plenty of water. Get medical attention if symptoms occur.
Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses if present. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

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

No information available.

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	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Always use personal protection equipment.

6.2 Environmental Precautions

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and clean up

Soak up with inert absorbent material. Place used material into appropriate, closed 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

Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap- plication area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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.

7.3 Specific end use(s)

For research use only. Not for diagnostic use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits
Contains no substances wit occupational exposure limit values.

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal Protective Equipment

Respiratory Protection	Use a properly-fitted, air-purifying, or air-fed respirator complying with an approved standard if a risk assessment indicates this is a necessity. Respirator selection must be on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hand Protection	Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Nitrile rubber, glove thickness: > 0.11 mm Break through time: > 30 min
Eye Protection	Tightly fitting safety goggles should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts.
Skin and Body Protection	Appropriate footwear and impervious clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene Measures	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure the eyewash station and safety showers are close to the workstation location.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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.

9.2 Other information

Not available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
No information available.

10.2 Stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts with the following substances:
Oxidizing agents
No decomposition if stored and applied as directed.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information	No data available.
Principle Routes of exposure	
Potential Health Effects	
Inhalation	No information available.
Ingestion	No information available.
Skin contact	No information available.
Eye contact	No information available.
Carcinogenetic effects	IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by IARC. NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Mutagenic effects	No information available.
Reproductive toxicity	No information available.
Sensitization	No information available.
Target organ effects	No information available.
Other adverse effect	No information available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
Avoid release into environment. Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulation potential
No data available on bioaccumulation.

12.4 Mobility in soil
No data available.

12.5 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste from residues:
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging:
Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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

No data available.

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.