

## SECTION 1: IDENTIFICATION

**1.1 Product identifier**Product Name HCR<sup>TM</sup> RNA-CISH Amplification 6 AP**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**

Mixture, category not classified

**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**

Mixture may be irritation to the mucous membranes and upper respiratory tract. 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.

Local authorities should be advised if significant spillages cannot be contained.

**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 application 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 with 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	In case of contact through splashing: Nitrile rubber, glove thickness: > 0.11 mm Break through time: > 30 min In case of full contact: Butyl-rubber, glove thickness: > 0.4mm Breakthrough time: > 480 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 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 (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.  
Sulfur oxides

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Toxicological information

No data available.

Principle Routes of exposurePotential Health Effects

Inhalation

Ingestion

Skin contact

Eye contact

Carcinogenetic effects

Mutagenic effects

Reproductive toxicity

Sensitization

Target organ effects

Other adverse effect

Vapors may cause irritation to respiratory system

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

May cause skin irritation and/or dermatitis.

Vapors may cause irritation to the eyes.

No information available.

No information available.

No information available.

No information available.

No information available.

No information available.

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity**

No data available.

**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**

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone – CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by  
the U.S.  
Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**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.

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

Chemical Name	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Zinc chloride (ZnCl <sub>2</sub> )	7646-85-7	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**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 product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**US State Regulations**

Chemical Name	Pennsylvania-RTK
Water	Listed
Sodium chloride	Listed

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**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](http://www.hcrimaging.com/legal/terms) for our terms of sale.