

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name

HCR™ Pro Detect E

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

This safety data sheet complies with the requirements of Regulation EC 1907/2006.

2.1 Classification of the substance or mixture

GHS Classification

Health Hazards

Skin Irritation

Category 2, H315

Serious Eye Irritation

Category 2A, H319

Respiratory Irritation

Category 3, H335

Fertility Damage

Category 1, 1A, 1B, H360

2.2 Label elements including precautionary statements



Signal Word

Warning

Hazard Statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

H360

May damage fertility or the unborn child.

Precautionary Statements

P261

Avoid breathing mist or vapors.

P272

Contaminated work clothing must not be allowed out of the workplace.

P280	Wear protective gloves, protective clothing, and eye protection
P302+P352	If on skin: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterization

Mixture.

3.2 Dangerous Components

Chemical Name	CAS No	EINECS No	Weight %
4-Hydroxyphenylethylamine	51-67-2	-	< 1
Disodium tetraborate, decahydrate	1303-96-4	-	< 1
Boric acid	11113-50-1	-	< 1
Sodium chloride	7647-14-5	-	< 1

*Actual concentrations are 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.

Inhalation

After inhalation, in case of unconsciousness, place stably in side position for transportation.

Ingestion

After swallowing, if symptoms persist, consult a physician.

Skin Contact

In case of skin contact, take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.

Eye Contact

After eye contact, rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

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

No data available.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide (CO₂), extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards

No data available.

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.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental Precautions

No special measures required.

6.3 Methods and material for containment and clean up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

6.4 Reference to other sections

For safe handling, see Section 7.
For personal protection equipment, see Section 8.
For disposal, see Section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibles

Keep container tightly closed and store in a well-ventilated place. Recommended storage temperature is 2 – 8 °C.

7.3 Specific end use(s)

For research use only. Not for diagnostic use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Workplace Exposure Limits (WEL)

Components	CAS No	Value type (Form of exposure)	Control parameters/Permissible concentration	Basis
Disodium tetraborate, decahydrate	1303-96-4	TWA	5 mg/m ³	NIOSH REL
		TWA	Short-term value: 6 mg/m ³ * Long-term value: 2 mg/m ³ * *As inhalable fractions	TLV

8.2 Exposure controls

Engineering Measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal Protective Equipment

Respiratory Protection

In case of brief or low exposure, use an approved cartridge filter. In case of intensive or longer exposure, use SCBA. Suitable respiratory protective device recommended.

Hand Protection

The glove material has to be impermeable and resistant to the product/substance/preparation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance, and therefore, has to be checked prior to the application.

Eye Protection

Tightly sealed goggles.

Skin and Body Protection

Protective clothing.



Hygiene Measures

Keep away from food and beverages.
Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Environmental Exposure Controls

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

No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Stability

The product is chemically stable under standard ambient conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological information

Acute Toxicity

Oral

No data available.

Inhalation

No data available.

Dermal

No data available.

Principle Routes of exposure

Potential Health Effects

Inhalation	No data available.
Ingestion	No data available.
Skin contact	Irritant to skin and mucous membranes.
Eye contact	Irritating effect.
Carcinogenetic effects	No data available.
Mutagenic effects	No data available.
Reproductive toxicity	No data available.
Sensitization	No sensitizing effects known.
Target organ effects	No data available.
Other adverse effect	No data available.

11.2 Additional Information

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

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.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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****SARA 355 (Extremely hazardous substances):**

None of the ingredients is listed.

SARA 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

Sodium chloride (7647-14-5)

Disodium tetraborate, decahydrate (1303-96-4)

Boric acid (11113-50-1)

Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

Disodium tetraborate, decahydrate (1303-96-4)

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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.molecularinstruments.com/terms for our terms of sale.