

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product Name Post-Process B

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 sheetCompany Molecular Instruments, Inc.
5015 Eagle Rock Blvd Suite 301
Los Angeles, CA 90041
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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

Acute toxicity, Oral	Category 2
Acute toxicity, Dermal	Category 1
Acute toxicity, Inhalation – Dusts and Mists	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Short-term (acute) aquatic hazard	Category 2
Long-term (chronic) aquatic hazard	Category 3

2.2 Label elements including precautionary statementsSignal Word

Danger

Hazard Statements

H300+H310+H330	Fatal if swallowed, in contact with skin or if inhaled. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
H318	
H373	

Precautionary Statements

P273	Avoid release to the environment.
P280	Wear eye/face protection.



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P301+P312+P330	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
P301+P330+P331	If swallowed: Rinse mouth. Do not induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P310	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor.
P305+P351+P338+P310	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

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	Index No	Weight %
Hydrogen peroxide	7722-84-1	-	-	1-3
Sodium azide	26628-22-8	247-852-1	-	0.5-1

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation

Move to fresh air. Consult a physician if necessary. If not breathing, give artificial respiration.

Ingestion

Rinse mouth and drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician or poison control center immediately.

Skin Contact

Rinse immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing. Get medical attention if symptoms occur.



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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

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

Advice for non-emergency personnel: Do not breathe vapors and/or aerosols. Do not use steel or aluminum tools or equipment. Avoid substance contact. Avoid dust formation. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental Precautions

Should not be released into the environment. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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. Avoid dust formation. Clean up affected area.

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

Workplace Exposure Limits (WEL)

Chemical Name	Cas No	Value	Control Parameters	Basis
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m ³	NIOSH REL
		TWA	1 ppm 1.4 mg/m ³	OSHA
Sodium azide	26628-22-8	TWA	0.11 ppm 0.29 mg/m ³	ACGIH
		TWA	0.1 ppm 0.3 mg/m ³	OSHA PEL
		TWA	0.1 ppm 0.3 mg/m ³	NIOSH

8.2 Exposure controls

Personal Protective Equipment

Wear protective gloves/protective clothing and eye/face protection. Only wear fitting, comfortable, and clean protective clothing. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory Protection

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

Hand Protection

Tightly sealed safety glasses.

Eye Protection

Wear suitable protective clothing.

Skin and Body Protection

Refer to Section 6. No further action is necessary.

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

Has a fire-promoting effect due to release of oxygen.

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)
Hydrogen peroxide	693.7 mg/kg	> 2000 mg/kg	11.1 mg/L (vapor; 4h)
Sodium azide	27 mg/kg	20 mg/kg	0.054-0.52 mg/L (dust)

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
Hydrogen peroxide	ErC50: 1.38 mg/L (72 h) (<i>S. costatum</i>) NOEC: 0.63 mg/L (72 h) (<i>S. costatum</i>)	NOEC: 0.63 mg/L (21 d) (<i>D. magna</i>)	LC50: 16.4 mg/L (96 h) (<i>P. promelas</i>)
Sodium azide	-	-	LC50: 0.7 mg/L (96 h) (<i>L. macrochirus</i>) LC50: 0.8 mg/L (96 h) (<i>O. mykiss</i>) LC50: 5.46 mg/L (96 h) (<i>P. promelas</i>)

12.2 Persistence and degradability

Components:

Hydrogen peroxide:

Biodegradability:

Aerobic
 Inoculum: activated sludge
 Result: Readily biodegradable
 Biodegradation: > 99%
 Exposure time: 0.5 h
 GLP: Yes
 Remarks: (ECHA)

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

Avoid discharge into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Avoid release into the environment. Disposal of contents and containers must comply with all requirements of local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.



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

SARA 311/312

See Section 2 for more information.

SARA 313

Chemical Name	CAS No	Weight %	SARA 313-Threshold Values %
Hydrogen peroxide	-	-	-
Sodium azide	26628-22-8	0.5-1	1.0

CERCLA Reportable Quantity

Chemical Name	Hazardous Substance RQs	CERCLA EHS RQs	SARA Reportable Quantity RQ
Hydrogen peroxide	-	-	-
Sodium azide	1000 lb	1000 lb	1000 lb 454 kg

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.



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US State Regulations

Chemical Name	Massachusetts-RTK	New Jersey-RTK	Pennsylvania-RTK	Illinois-RTK	Rhode Island-RTK
Hydrogen peroxide	-	-	Listed	-	Listed
Sodium azide	Listed	Listed	Listed	-	Listed

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

No data available.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

None.

Other countries

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
Hydrogen peroxide	Listed	-	Listed	Listed
Sodium azide	Listed	-	Listed	Listed

Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
Hydrogen peroxide	Listed	Listed	Listed	-
Sodium azide	Listed	Listed	Listed	-

15.2 Chemical safety assessment

No data available.



MOLECULAR INSTRUMENTS

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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.