



Monobind, Inc.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

1.1. Product Identifier(s)

Name: Activezyme® HRP Stabilizer
 Description: 10X Concentrate and Ready to Use
 Code: 477MM, 478MM, 479MM, 642MM, 670MM, 704M, 882MM and 881MM
 Characteristics: Protein Conjugate Stabilizer Buffer

1.2. Relevant identified uses of the substance or mixture and uses advised against
 For in vitro diagnostic use only. Not for internal or external use in humans or animals.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Importer: Manufacturer
 Name or commercial name: Monobind Inc.
 Registered office: 100 North Pointe Drive, Lake Forest, California 92630, USA
 Telephone number: +1.949.951.2665
 Fax number: +1.949.951.3539
 Email: info@monobind.com
 FDA Established
 Registration number: 2020726

1.4. Emergency telephone number

+1.949.951.2665 (Hours: 8 am-5 pm PST, Monday-Friday)

SECTION 2. HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

None

2.2. Label elements

None

2.3. Other hazards

None

The product contains the following hazardous substances and those with the following highest permissible concentrations in the working environment:

Identification numbers	Chemical name of substance	Concentrations	Risk and safety statements
CAS: 10043-52-4 Merck Index: None	Calcium Chloride	< 1 %	R36, S22-24 EC (EINECS): 233-140-8
CAS: 54827-17-7 Merck Index: None	3,3',5,5'-Tetramethylbenzidine	< 1 %	R20/21/22-36/37/38-40, S26-36/37 EC (EINECS): 259-364-6
CAS: 2682-20-4 EC (EINECS): 220-239-6 Merck Index: None	2-Methyl-4-isothiazolin-3-one	0.015 %	R22-34-43
CAS: 30007-47-7 Merck Index: None	5-Bromo-5-nitro-1, 3-dioxane (BND)	0.015 %	R21/22 EC (EINECS): 250-001-7

Risk symbols

T+ Very toxic
 Xi Irritant
 C Corrosive

Risk phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
 R21/22 Harmful in contact with skin and if swallowed
 R22 Harmful if swallowed
 R26/27/28 Very Toxic by inhalation, in contact with skin and if swallowed
 R28 Very Toxic if swallowed
 R32 Releases very toxic gas in contact with acids
 R33 Danger of cumulative effects
 R34 Causes burns



R36/37/38 Irritating to eyes, respiratory system and skin
R40 Possible risk of irreversible effects
R43 May cause sensitization by skin contact

Safety phrases

S13 Keep away from food, drink and animal feeding stuffs
S23 Do not breathe spray
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28.1 After contact with skin, wash immediately with plenty of water
S30 Never add water to this product
S36 Wear suitable protective clothing
S36/37 Wear suitable protective clothing and gloves
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances and/or Mixtures

When used, the most adverse impacts of the substance/preparation on human health include: Irritation to eyes, respiratory system and skin.

SECTION 4. FIRST-AID MEASURES

4.1. Description of first aid measures

General instructions: Immediately rinse with soap and plenty of water. Use personal protective working aids.
If inhaled: Transport the affected person into the open air. If there are respiratory complaints, oxygen must be administered. If irritation persists, seek medical advice.
In case of skin contact: The contaminated clothing and footwear must be taken off; the affected skin must be rinsed with plenty of water. Use soap to completely remove the substance. If irritation persists, seek medical advice.
In case of contact with eyes: Rinse with a stream of water for at least 15 minutes. Thorough rinsing must be ensured by opening the eyelids. If irritation occurs, seek medical advice.
If ingested: Do NOT induce vomiting. If conscious, rinse the mouth and administer a large amount of water to dilute the substance. In the case of unconsciousness, never administer anything orally. If irritation occurs, seek medical advice.

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, dry powder, foam, water

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Wear appropriate personal protective equipment and clothing. Wear self-contained breathing apparatus, if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear suitable personal protective clothing.

6.2. Environmental precautions

Avoid penetration into sewerage systems, surface and ground water. Avoid soil pollution.

6.3. Methods and material for containment and cleaning up

Cover with suitable absorbing material. After removing the substance, rinse the spot of spilling thoroughly with water and soap. Dispose of waste according to all federal, state, and local regulations.

6.4. Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for appropriate disposal methods.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spills. Avoid contact with skin, eyes and clothing. Use suitable protective means to work with the substance. Use in a well-ventilated area. Follow good manufacturing practices when using product. Do not drink, smoke, or eat in work areas.

7.2. Conditions for safe storage, including any incompatibilities

- 7.2.1. Kit and unopened components:
Store at temperatures between + 2 and + 8 °C in a dry and dark place until expiration date.
7.2.2. Opened components: Not applicable
7.2.3. For prepared reagents (see product insert): Not applicable

7.3. Specific end uses

Product procedure should be performed by a skilled individual or trained professional for in vitro diagnostic use only.

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SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

No substances with occupational exposure limits.

8.2. Exposure controls

- | | | |
|--------|-------------------------|--|
| 8.2.1. | Eye/face protection: | Safety glasses or goggles with side shields recommended |
| 8.2.2. | Skin protection: | Compatible protective gloves recommended. Wash hands after properly removing and disposing of gloves. |
| | Other skin protection: | Laboratory coats are recommended. |
| 8.2.3. | Respiratory protection: | No respiratory protection is required. Use product in rooms enabling good ventilation. If local exhaustion is necessary, general (forced) exhaustion is recommended. |
| 8.2.4. | Thermal hazards: | None |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- | | | |
|---------|---|----------------|
| 9.1.1. | Appearance: | |
| | Physical state (at 20 °C): | Liquid |
| 9.1.2. | Odor: | Odorless |
| 9.1.3. | Odor threshold: | Not applicable |
| 9.1.4. | pH value: | 6.3 ± 0.2 |
| 9.1.5. | Melting point/freezing point: | Not determined |
| 9.1.6. | Initial boiling point/ boiling range: | Not determined |
| 9.1.7. | Flash point: | Not applicable |
| 9.1.8. | Evaporation rate: | Not determined |
| 9.1.9. | Flammability (solid, gas): | Not flammable |
| 9.1.10. | Upper/lower flammability or explosive limits: | Not applicable |
| 9.1.11. | Vapor pressure: | Not determined |
| 9.1.12. | Vapor density: | Not determined |
| 9.1.13. | Relative density: | Not determined |
| 9.1.14. | Solubility: | Water soluble |
| 9.1.15. | Partition coefficient: n-octanol/water: | Not determined |
| 9.1.16. | Auto-ignition temperature: | Not applicable |
| 9.1.17. | Decomposition temperature: | Not determined |
| 9.1.18. | Viscosity: | Not determined |
| 9.1.19. | Explosive properties: | None |
| 9.1.20. | Oxidising properties: | Not determined |

9.2. Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1.Reactivity

No known reactivity hazards associated with product

10.2.Chemical stability

Stable under recommended storage conditions

10.3.Possibility of hazardous reactions

No hazardous polymerization

10.4.Conditions to avoid

Excessive heat and light

10.5.Incompatible materials

Acids

10.6.Hazardous decomposition products

Not determined

SECTION 11. TOXICOLOGICAL INFORMATION:

11.1.Information on toxicological effects

- | | | |
|----------|---|---|
| 11.1.1. | Acute toxicity: | Not determined |
| 11.1.2. | Skin corrosion/irritation: | Not determined |
| 11.1.3. | Serious eye damage/irritation: | Not determined |
| 11.1.4. | Respiratory or skin sensitisation: | Not determined |
| 11.1.5. | Germ cell mutagenicity: | Not determined |
| 11.1.6. | Carcinogenicity: | No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by NTP (National Toxicology Program), IARC (International Agency for Research on Cancer), or OSHA (Occupational Safety & Health Administration) |
| 11.1.7. | Reproductive toxicity: | Not determined |
| 11.1.8. | STOT-single exposure: | Not determined |
| 11.1.9. | STOT-repeated exposure: | Not determined |
| 11.1.10. | Aspiration hazard: | Not determined |
| 11.1.11. | Information on likely routes of exposure: | |

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If ingested: No known health effects
If inhaled: No known health effects
If contact with skin: No known health effects
If contact with eyes: No known health effects

11.1.12. Symptoms related to the physical, chemical, and toxicological characteristics: None after short or long-term exposure

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not determined.

12.2. Persistence and degradability

Not determined

12.3. Bioaccumulative potential

Not determined

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

Not determined

12.6. Other adverse effects

Not determined

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Mix or dissolve the material in a combustible solvent and burn up in a facility whose equipment matches all regulations in effect. A licensed professional waste disposal service should be utilized to dispose of material and packaging. All waste disposals must be carried out in accordance with federal, state, and local legislation and administrative regulations.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

Not available

14.2. UN proper shipping name

Not available

14.3. Transport hazard class(es)

Not available

14.4. Packing group

Not available

14.5. Environmental hazards

Overland transport (ADR/RID): As a mixture, the substance is subject to no limitations.
Water transport (ADN/IMDG): As a mixture, the substance is subject to no limitations.
Air transport (ICAO/IATA): As a mixture, the substance is subject to no limitations.

14.6. Special precautions for user

None

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

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

SARA Reporting Requirements: None

TSCA All components in product preparations are listed on the US Toxic Substances Control Act inventory of chemicals or are exempt from listing.

This safety data sheet has been prepared to comply with the requirements of Annex II, European Community Regulation No. 1907/2006 REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) and OSHA (Occupational Safety & Health Administration) 1910.1200, Appendix D.

According to the Act No. 157/1998 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, components contained in the Monobind ELISA kits are non-hazardous substances in said concentrations.

Monobind ELISA kit is subject to special marking regulations according to the EC regulations (28/10/1999

15.2. Chemical safety assessment

None

SECTION 16. OTHER INFORMATION

Revision 1 (2023-JULY-21): Updated pH value, ISO number, renamed sections to comply with the requirements of Annex II, European Community Regulation No. 1907/2006 REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) and OSHA (Occupational Safety & Health Administration) 1910.1200, Appendix D., and added additional catalog numbers with different volume fills.

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Revision 0 (2013-MAR-19): Initial creation

The material safety data sheet contains data necessary to ensure safety and health and environmental protection in working with chemical substances. This product is a chemical substance and can be solely used by persons with chemical education at their own risk. Monobind kits are designed for biomedical research. The manufacturer has no responsibility for damage caused by unsuitable use and by disrespecting the enclosed working instructions. The above-stated information cannot be considered as complete and must be understood to be only a methodical instruction.

DOCUMENT HISTORY

PREPARED BY: *M. Sule* DEPT: Records Administration VERIFIED BY: *A. Shatola* DEPT: QA
APPROVED BY: *F. H. Khan* DEPT: Administration EFFECTIVE DATE: 2023-JULY-21
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