

SAFETY DATA SHEET

Fibrinogen

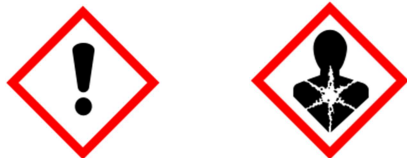
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Fibrinogen
Catalogue Numbers	C.BMD.FIBR-02ML-8AB
Company Identification	BioMedica Diagnostics Inc. 94 Wentworth Road, PO Box 1030 Windsor, Nova Scotia CANADA B0N 2T0
Company Contact	Corporate Phone: 1-902-798-5105 Corporate Fax: 1-902-798-1025 Email: info@biomedicadiagnostics.com Website: www.biomedicadiagnostics.com
Emergency Phone Number	US, Canada, Puerto Rico & Virgin Islands 1-800-255-3924 International +1-813-248-0585 Australia 1-300-954-583 Brazil 0-800-591-6042 China 400-120-0751 India 000-800-100-4086 Mexico 01-800-099-0731 CONTRACT NUMBER MIS9591327

2. HAZARDS IDENTIFICATION

GHS Classification

Pictogram



Signal Word Danger

Hazard Statements

- | | |
|------|--|
| H305 | May be harmful if swallowed and enters airways. |
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H320 | Causes eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

Precautionary Statements

- | | |
|------|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
|------|---|

P264	Wash hands thoroughly after handling.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptom: Call a POISON CENTER or doctor/physician.

Potential Health Effects

INHALATION	Prolonged exposure may result in dizziness and general weakness.
SKIN	Prolonged and/or repeated contact may cause irritation and/or dermatitis.
EYES	May cause eye irritation.
INGESTION	May cause irritation of the digestive tract.
CHRONIC	No information found.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: Only the ingredients deemed hazardous by the Canadian enviroOSH Legislation are listed below.

CAS#	Chemical Name	Percent	EINECS
9002-04-4	Bovine Thrombin	<5%	232-648-7
26628-22-8	Sodium Azide	<1%	247-852-1

4. FIRST AID MEASURES

EYES	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention immediately.
SKIN	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops or persists, seek medical attention.
INGESTION	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
INHALATION	Move to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

GENERAL	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
EXTINGUISHING MEDIA	Use water spray, dry chemical, carbon dioxide or chemical foam.
AUTOIGNITION TEMPERATURE	Not applicable.

FLASH POINT: LOWER LIMIT (%)	Not available.
FLASH POINT: UPPER LIMIT (%)	Not available.
FIRE AND EXPLOSION HAZARDS	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

GENERAL	Use proper personal protective equipment as indicated in Section 8.
SPILLS/LEAKS	Absorb spill with inert material, then place in suitable container. Clean up spills immediately, observing precautions in the section 8.

7. HANDLING AND STORAGE

HANDLING	Avoid contact with skin and eyes. Avoid ingestion and inhalation.
STORAGE	Store 2-8°C in the original container and protect from sunlight. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.												
EXPOSURE LIMITS	<table border="1"> <thead> <tr> <th>Chemical Name</th> <th>ACGIH</th> <th>NIOSH</th> <th>OSHA</th> </tr> </thead> <tbody> <tr> <td>Sodium Azide</td> <td>0.29 mg/m³ Ceiling (as NaN₃) 0.11 ppm Ceiling (vapour, as hydrazoic acid)</td> <td>0.1 ppm Ceiling (as HN₃); 0.3 mg/m³ Ceiling as NaN₃</td> <td>Not on this list.</td> </tr> <tr> <td>Bovine Thrombin</td> <td>Not on this list.</td> <td>Not on this list.</td> <td>Not on this list.</td> </tr> </tbody> </table>	Chemical Name	ACGIH	NIOSH	OSHA	Sodium Azide	0.29 mg/m ³ Ceiling (as NaN ₃) 0.11 ppm Ceiling (vapour, as hydrazoic acid)	0.1 ppm Ceiling (as HN ₃); 0.3 mg/m ³ Ceiling as NaN ₃	Not on this list.	Bovine Thrombin	Not on this list.	Not on this list.	Not on this list.
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EYE/FACE PROTECTION	Wear appropriate protective eyeglasses or safety goggles to prevent eye exposure.												
SKIN PROTECTION	Wear appropriate clothing and gloves to prevent skin exposure.												
RESPIRATORY PROTECTION	If exposure limits are exceeded or if irritation or other symptoms are experienced follow the OSHA respirator regulations found in 29 CFR 1920.134 or European Standard EN 149.												
OTHER/GENERAL PROTECTION	Follow general laboratory safety procedures.												

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Solid
COLOR	White
ODOR	Odorless
pH	No information found.
VAPOR PRESSURE	No information found.
VAPOR DENSITY	No information found.
EVAPORATION RATE	No information found.
VISCOSITY	No information found.
BOILING POINT	No information found.
MELTING POINT	No information found.
SOLUBILITY IN WATER	Soluble in water.
DENSITY	No information found.

MOLECULAR FORMULA	Not applicable.
MOLECULAR WEIGHT	No information found.

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal temperatures and pressures.
CONDITIONS TO AVOID	Incompatible materials, dust generation.
INCOMPATIBILITIES	Strong oxidants, transition metals.
HAZARDOUS DECOMPOSITION PRODUCTS	No data available.
HAZARDOUS POLYMERIZATION	Has not been reported.

11. TOXICOLOGICAL INFORMATION

	Sodium Azide	Bovine Thrombin
CAS#	26628-22-8	9002-04-4
RTECS	VY8050000	XO8950000
LD50/LC50	Oral – rat – 27 mg/Kg Dermal – rabbit 20 mg/Kg	No information available.
CARCINOGENICITY	Not listed as a carcinogen by IARC, OSHA or NTP	Not listed as a carcinogen by IARC, OSHA or NTP
EPIDEMIOLOGY	Rabbit – mild skin irritation – 24 h Rabbit – severe eye irritation	No information available.
TERATOGENICITY	No information available.	No information available.
REPRODUCTIVE	No information available.	No information available.
MUTAGENICITY	No information available.	No information available.
NEUROTOXICITY	No information available.	No information available.
OTHER	No information available.	No information available.

Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.

12. ECOLOGICAL INFORMATION

No ecotoxicological data available on the product. Sodium Azide is toxic to fish (0.98-8 mg/L and plankton 5-14 mg/L). Use in accordance with good laboratory practice. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

The product waste is classified as toxic and harmful (azides). Dispose of waste product, unused product and contaminated product in compliance with federal, state, and local regulations. If unsure of the applicable requirements, contact the authorities for information. It is the responsibility of the user to classify the waste correctly before disposal. **RCRA P Series Wastes** – None of the components are on this list. **RCRA U Series Wastes** – None of the components are on this list.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

TSCA

CAS# 26628-22-8 is listed on the TSCA inventory.

CAS# 9002-07-4 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

CAS# 26628-22-8: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

SARA Codes

CAS# 26628-22-8: acute, chronic, reactive.

Section 313

This material contains Sodium azide (CAS# 26628-22-8) but not in a high enough concentration to be reportable under Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:

Sodium azide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
California No Significant Risk Level: None of the chemicals in this product are listed.

WGK (Water Danger/Protection)

CAS# 26628-22-8: 2

CAS# 9002-04-4: 1

Canada

CAS# 26628-22-8 is listed on Canada's DSL List.

CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List.

CAS# 9002-04-4 is not listed on Canada's Ingredient Disclosure List.

Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.

16. OTHER INFORMATION

SDS REVISION: rev 1.1 (26 May 2017)

The information above is believed to be accurate and represents the best information available to us.

However, neither the named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, no guarantees can be given that these are the only hazards.

This Safety Data Sheet characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.