

Material Safety Data Sheet
 Hema 3, Solution I

23122937

Section 1 - Chemical Product and Company Identification
MSDS Name:

Hema 3, Solution I

Catalog Numbers:

2300578, 23122911B, 23122937, 23123869B, 55851B

Synonyms:**Company Identification:**
 Biochemical Sciences, Inc.
 100 Clarendon Drive
 Swedesboro, NJ 08085
Company Phone Number:

(800) 524-0294

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

800-424-9300

CHEMTREC (International):

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	EINECS/ELINCS
7732-18-5	Water	Balance	231-791-2
26628-22-8	Sodium azide	<1.0	247-852-1
531-55-5	Azure B	<1.0	208-511-2
7778-77-0	Potassium Phosphate	0.5	231-913-4
10049-21-5	Sodium Phosphate	0.4	Not available.
17372-87-1	Eosin Y	0.1	241-409-6

Hazard Symbols:

Risk Phrases:

Section 3 - Hazards Identification
EMERGENCY OVERVIEW
Appearance: clear red
Caution! May cause irritation. This is expected to be a low hazard for usual industrial handling.
Target Organs: none known.
Potential Health Effects

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Eye:
No information regarding eye irritation and other potential effects was found.

Skin:
Low hazard for usual industrial handling.

Ingestion:
May cause irritation of the digestive tract.

Inhalation:
Low hazard for usual industrial handling.

Chronic:
No information found.

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin:
Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion:
If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:
Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature:

No information available.

Flash Point:

NFPA Rating:

Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container.

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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium azide	as sodium azide: C 0.29 mg/m3	None of the components are on this list.	None of the components are on this list.
Azure B	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Potassium Phosphate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium Phosphate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Eosin Y	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs**Personal Protective Equipment****Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear red

Odor: odorless

pH: No information available.

Vapor Pressure: No information available.

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Vapor Density: No information available.
Evaporation Rate: No information available.
Viscosity: No information available.
Boiling Point: No information available.
Freezing/Melting Point: No information available.
Decomposition Temperature: No information available.
Solubility: Soluble.
Specific Gravity/Density: No information available.
Molecular Formula: No information available.
Molecular Weight: No information available.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

None reported, acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, muriatic acid, phosphoric acid), acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), esters (e.g. butyl acetate, ethyl acetate, propyl formate), metals (alkali and alkaline, e.g. cesium, potassium, sodium), metals as powders (e.g. hafnium, raney nickel), metals as non-powders (e.g. brass, bronze, iron), metals and metal compounds (toxic, e.g. beryllium, lead acetate, nickel carbonyl, tetraethyl lead), nitrides (e.g. potassium nitride, sodium nitride), peroxides and hydroperoxides (organic, e.g. acetyl peroxide, benzoyl peroxide, butyl peroxide, methyl ethyl ketone peroxide), phenols and cresols (e.g. carbolic acid, creosote, cresol, phenol, resorcinol), sulfides (inorganic, e.g. ferric sulfide, lead sulfide, sodium sulfide), epoxides (e.g. butyl glycidyl ether), combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane), polymerizable compounds (e.g. butadiene, methyl acrylate, styrene, vinyl chloride), oxidizing agents (strong, e.g. bromine, hydrogen peroxide, nitrogen dioxide, potassium nitrate), reducing agents (strong, e.g. aluminum carbide, chlorosilane, hydrogen phosphide, lithium hydride), water reactive substances (e.g. acetic anhydride, alkyl aluminum chloride, calcium carbide, ethyl dichlorosilane).

Hazardous Decomposition Products

None.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 26628-22-8: VY8050000.
CAS# 531-55-5: SO5550000.
CAS# 7778-77-0 unlisted.
CAS# 10049-21-5 unlisted.
CAS# 17372-87-1: LM5850000.

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LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 26628-22-8:

Oral, mouse: LD50 = 27 mg/kg

Oral, rat: LD50 = 27 mg/kg

Skin, rabbit: LD50 = 20 mg/kg.

CAS# 531-55-5:

No information available. CAS# 7778-77-0:

No information available. CAS# 10049-21-5:

No information available. CAS# 17372-87-1:

Oral, mouse: LD50 = 2344 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 26628-22-8

ACGIH: A4 - Not Classifiable as a Human Carcinogen

CAS# 531-55-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7778-77-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 10049-21-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 17372-87-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:**Teratogenicity:****Reproductive:****Mutagenicity****Neurotoxicity****Other:**

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA P Series Wastes

CAS# 26628-22-8: waste number P105.

RCRA U Series Wastes

None of the components are on this list.

Section 14 - Transport Information

	US DOT	IATA	IMO	RID/ADR	Canadian TDG
Shipping Name:	No information available.	No information available.	No information available.	No information available.	No information available.
Hazard Class:					
UN Number:					
Packing Group:					

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Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

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

CAS# 531-55-5 is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 7778-77-0 is listed on the TSCA Inventory.

CAS# 10049-21-5 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

CAS# 17372-87-1 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

SARA Reportable Quantities (RQ)

CAS# 26628-22-8: final RQ = 1000 pounds (454 kg)

SARA Threshold Planning Quantities (TPQ)

CAS# 26628-22-8: TPQ = 500 pounds (This material is a reactive solid. The TPQ does not default to 10,000 pounds for non-powder, non-molten, non-solvent form); RQ = 1000 pounds

SARA Hazard Categories

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

CAS# 7778-77-0: acute.

CAS# 17372-87-1: acute.

CERCLA/SARA Section 313

This material contains Sodium azide (CAS# 26628-22-8, 1 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depleters

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depleters

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

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State Right to Know

Sodium azide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

CAS# 7732-18-5: No information available.
CAS# 26628-22-8: No information available.
CAS# 531-55-5: No information available.
CAS# 7778-77-0: No information available.
CAS# 10049-21-5: No information available.
CAS# 17372-87-1: No information available.

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols:
Risk Phrases:
Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7732-18-5: No information available.
CAS# 26628-22-8: 2
CAS# 531-55-5: No information available.
CAS# 7778-77-0: 1
CAS# 10049-21-5: 1
CAS# 17372-87-1: 1

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 26628-22-8 is listed on Canada's DSL List.
CAS# 7778-77-0 is listed on Canada's DSL List.
CAS# 17372-87-1 is listed on Canada's DSL List.

Canadian WHMIS Classifications

No information available.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 26628-22-8 is not listed on Canada's Ingredient Disclosure List.
CAS# 531-55-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7778-77-0 is not listed on Canada's Ingredient Disclosure List.
CAS# 10049-21-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 17372-87-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 26628-22-8: OEL-AUSTRALIA:TWA 0.1 ppm (0.3 mg/m3)
OEL-BELGIUM:STEL 0.11 ppm (0.3 mg/m3)
OEL-DENMARK:TWA 0.3 mg/m3
OEL-FINLAND:TWA 0.1 ppm (0.3 mg/m3);STEL 0.3 ppm (0.9 mg/m3)
OEL-FRANCE:STEL 0.1 ppm (0.3 mg/m3)
OEL-GERMANY:TWA 0.07 ppm (0.2 mg/m3)
OEL-THE NETHERLANDS:TWA 0.1 ppm (0.3 mg/m3)
OEL-SWITZERLAND:TWA 0.07 ppm (0.2 mg/m3)
OEL-UNITED KINGDOM:TWA 0.1 ppm (0.3 mg/m3);STEL
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

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Section 16 - Other Information

MSDS Creation Date: May 18, 1995

Revision Date: March 16, 1998

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.