

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 0.2M Dithiothreitol (DTT)

Responsible party: Hemo bioscience, Inc.
4022 Stirrup Creek Dr
Suite 311
Durham, NC 27703

TELEPHONE: (919) 313-2888

FAX: (919) 313-2894

EMERGENCY: (919) 313-2888

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PRODUCT USE: Immunohematology Testing

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Causes eye irritation. May be harmful if absorbed through skin.
Causes skin irritation. Harmful if swallowed.

OSHA REGULATORY STATUS This product is considered hazardous under 29 CFR 1910.1200.

HMIS CLASSIFICATION:

Health: 2

Flammability: 0

Physical Hazard: 0

NFPA RATING:

Health: 2

Flammability: 0

Instability: 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	% WT
(R*,R*)-1,4-Dimercaptobutane-2,3-diol	3483-12-3	3.1
Sodium Chloride	7647-14-5	8.5

SECTION 4: FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with plenty of water for 15 minutes. Get immediate medical attention.

SKIN CONTACT Wash off with soap and water. Get medical attention if symptoms occur.

SAFETY DATA SHEET

INHALATION If symptoms develop, remove affected person from source of exposure into fresh air. Get immediate medical attention.

INGESTION If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
Product does not burn. Use methods for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA
Do not use a solid water stream as it may scatter and spread fire.

HAZARDOUS COMBUSTION PRODUCTS

None

PROTECTIVE EQUIPMENT AND SPECIAL PRECAUTIONS FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Observe precautions from other sections. Keep unnecessary personnel away. Do not touch damage containers or spilled material unless wearing appropriate personnel protection.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways and sewers.

METHODS FOR CONTAINMENT

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

METHODS FOR CLEANING UP

Soak up with inert absorbent material. Clean contaminated surface thoroughly. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up absorbent material and shovel into suitable containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid contact with eyes. Avoid prolonged or repeated skin contact. Wash thoroughly after using.

STORAGE

Store in a closed container away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	TLV ppm	TLV mg/m ³	PEL ppm	PEL mg/m ³
(R*,R*)-1,4-Dimercaptobutane - 2,3-diol	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sodium Chloride	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SAFETY DATA SHEET

Eye/Face Protection	Wear safety glasses; chemical goggles (if splashing is possible).
Skin Protection	Wear chemical resistance gloves. Wear suitable protective clothing.
Respiratory Protection	No personal respiratory protective equipment normally required. An air purifying respirator with an organic vapor cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits, or if irritation or symptoms are experienced. Respiratory protection must be provided in accordance with 29 CFR 1910.134.
General Hygiene Considerations	When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Launder contaminated clothing before reuse. Keep away from food and drink.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Colorless
Odor	Odorless
Odor Threshold	Not Available
Form	Liquid
pH	Not Available
Melting Point	Not Available
Freezing Point	Not Available
Boiling Point	Not Available
Flash Point	None
Evaporation Rate	Not Available
Flammability Limits in Air, Upper, % by Volume	Not Applicable
Flammability Limits in Air, Lower, % by Volume	Not Applicable
Vapor Pressure	Not Available
Vapor Density (air=1)	Not Available
Density	Not Available
Solubility (water)	Not Available
Partition Coefficient (n-octanol/water)	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available

SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

CHEMICAL STABILITY	Stable.
CONDITIONS TO AVOID	Heat.
INCOMPATIBLE MATERIALS	Strong acids, alkalies, oxidizing and reducing agents, lithium, bromide trifluoride.
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen sulfide, oxides of carbon, nitrogen, sulphur, chloride, and sodium.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS	Refer to Hazards Identification Section.
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SAFETY DATA SHEET

CARCINOGENICITY

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC and NTP.

POTENTIAL HEALTH EFFECTS

Routes of Exposure

Eyes

Skin

Eye and skin contact.

Causes eye irritation.

May be harmful if absorbed through skin.

Causes skin irritation.

Inhalation

Health injuries are not known or expected under normal use.

Ingestion

Harmful if swallowed.

Target Organs

Eyes. Skin.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS

Dispose in accordance with all applicable regulations.

SECTION 14: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT) REQUIREMENTS

Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY

None

SARA 311/312 HAZARDS

Acute Health Hazard

SARA 302 COMPONENTS

None

SARA 313 COMPONENTS

None

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product comply with all applicable rules and orders under TSCA.

CALIFORNIA PROP 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

None

PREPARED BY: Hemo bioscience, Inc.