



MATERIAL SAFETY DATA SHEET

Product:**043162 MonoStandard, mixture of six, 100 nmol each****The combined weight of the MonoStandard Mix of Six is 0.1 mg**

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	L-Fucose	D-Galactosamine Hydrochloride	D-Glucosamine Hydrochloride	D-Galactose	D-Glucose (a form)	D-Mannose
PERCENT (%)	100 nmol	0	0	0	0	0
CAS NO.	6696-41-9	1772-03-8	66-84-2	59-23-4	50-99-7	3458-28-4
EINECS NO.	Not Found	217-198-1	200-638-1	200-416-4	200-075-1	222-392-4
RISKS						
SAFETY		S20, S26, S36/37/39, S45				

3. HAZARDOUS IDENTIFICATION

HAZARD CLASS	None	NFPA	HMIS
Eyes:	None	HEALTH 0	0
Skin:	None	FLAMMABILITY 0	0
Ingestion:	None	REACTIVITY 0	0
Inhalation:	None	NFPA SPECIAL HMIS PPE	- -



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4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION:

HAZARDS:

EXTINGUISHING MEDIA: Carbon Dioxide, Foam, Dry Chemical
(Note: Carbon Dioxide is one of the decomposition products)

SPECIAL FIRE FIGHTING PROCEDURES: Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Ventilate area.
Wear appropriate protective clothing and eye protection.
Contain spill.
Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
Mop up and store in a suitable waste container.
Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

Ensure good ventilation.
Have an eye wash in the immediate area in case of emergency.
Store at room temperature
Keep container tightly closed
Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes

CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Glasses or goggles.

RESPIRATORY: None

OTHER: Labcoats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White powder

ODOR: None

pH: N/A (a solid)

MOLECULAR WEIGHT: 164.16, 215.66, 215.66, 180.16, 180.16 and 180.16

MELTING POINT: 133 - 180 degrees C

BOILING POINT: N/A (a solid)

AUTOIGNITION TEMPERATURE:

FLASH POINT: N/A

LOWER EXPLOSION LIMIT: Undetermined

UPPER EXPLOSION LIMIT: Undetermined

SPECIFIC GRAVITY:



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing acids such as concentrated sulfuric acid.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, and Nitrous Oxides.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin with copious amounts of water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	L-Fucose	D-Galactos amine Hydro chloride	D-Glucos amine Hydro chloride	D-Galactose	D-Glucose (a form)	D-Mannose
RTECS #	Not Found	Not Found	Not Found	LW5490000	LZ6600000	1012830ME
OSHA PEL	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
ACGIH TLV	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
TOXICITY DATA	None	None	None	None	None	
TSCA	Not Found	Not Found	0	0	0	0



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12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: Not Regulated

UN ID NUMBER: -
PROPER SHIPPING NAME: -
CLASS OR DIVISION: -
SUB RISK: -
HAZARD LABEL(S): -
PACKAGING GROUP: -
LIMITED QUANTITY PKG INSTRUCTION: -
MAXIMUM LIMITED QUANTITY: -
SPECIAL PROVISIONS: -
ERG CODE: -
TRAINING: -
VARIATIONS: -

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: None Listed
PRODUCT SAFETY STATEMENTS: S24/25 Avoid contact with skin and eye
S37 Wear suitable gloves
S45 In case of accident or if you feel unwell, seek medical advice immediately
S28A

16. OTHER INFORMATION