

CAMBRIDGE ISOTOPE LABORATORIES
50 Frontage Road, Andover, Massachusetts 01810

Material Safety Data Sheet

PLEASE NOTE: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally unavailable, but are assumed to be similar or identical to the corresponding unlabeled compound. While the information contained is believed to be accurate, it does not claim to be all inclusive, and should be used only as a guide. CIL, Inc., extends no warranties with respect hereto and disclaims all liabilities from reliance thereon. Judgments as to the suitability of the data presented with respect to the use of the product are the responsibility of the purchaser and intended user.

Section 1. Chemical Product and Company Identification

**2mM Sucrose + 0.5 mM DSS + 2mM NAN3
(in 90% H2O / 10% D2O Wilmad 513A 8mm tube)**

CATALOG NO.
DLM-91-B

Manufacturer's Name
Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA.

Emergency Telephone No.
USA: 1-800-424-9300
USA, for Information:
(800) 322-1174

Emergency Telephone No.
INT: 1-202-483-7616
International, for Information:
(978) 749-8000

Date Prepared: 13-Apr-00

Supersedes: All previous.

Section 2. Hazard. Ingredients/Identify Information

Hazardous Components (Specific Chemical Identity; Common Names)

Chemical Names

CAS Number

RTECS No.:

Not available.

Sucrose

57-50-1 (Unlabeled)

OSHA PEL

ACGIH TLV

DSS

2039-96-5

8H TWA 15mg/m3

Not human carcinogen.

Sodium Azide (NaN3)

26628-22-8

Not established.

Not established.

Water (H2O)

7732-18-5

CL 0.3 mg/m3

CL 0.3 mg/m3

Deuterium Oxide (D2O)

7789-20-0

Not established.

Not established.

Section 3. Hazard Identification.

Appearance:

Clear liquid.

Potential health effects:

May cause heritable genetic damage. (Sodium Azide)

Routes of Entry:

Inhalation, ingestion, skin absorption.

Symptoms of exposure:

Not available.

Target organs:

Not available.

Warnings:

Highly toxic. Avoid contact with metals. Heating may cause an explosion. (Sodium Azide)

Section 4. First Aid Measures.

On contact, flush eyes or skin with lots of water for at least 15 min.

Breathing: If not breathing, give artificial respiration.

Remove contaminated clothing and shoes.

Not breathing: If not breathing, give artificial respiration.

If inhaled, remove to fresh air.

Swallowed: Wash out mouth with water if person is conscious.

Call a physician.

Section 5. Fire-Fighting Measures.

Extinguishing Media:

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Methods and cautions:

Wear self-contained breathing apparatus and protective clothing.

Prevent contact with skin and eyes.

Flammable LEL:

Not available.

Flammable UEL:

Not available.

Section 6. Accidental Release Measures.

Shut off all sources of ignition.

Wear self-contained breathing apparatus and protective clothing.

Cover with activated carbon absorbent, place in a closed container and transport outdoors.

Hygiene warning:

Wash thoroughly after handling.

Respiratory protection:

Wear NIOSH/MSHA approved respirator.

2mM Sucrose + 0.5 mM DSS + 2mM NaN₃**DLM-91-B****Section 7. Handling and Storage.**

General warning:	Highly toxic. Avoid contact with metals. Heating may cause an explosion. (Sodium Azide)
Handling procedures:	Avoid contact with eyes, skin and clothing.
Storage procedures:	Store in a cool, dry place and keep container tightly closed.
Hygiene instructions:	Wash thoroughly after handling.
Other:	Not available.

Section 8. Exposure Controls and Personal Protection.

General controls:	Not available.
Eye/face protection:	Not available.
Skin Protection:	Not available.
Respiratory protection:	Wear NIOSH/MSHA approved respirator.

Section 9. Physical/Chemical Characteristics.

Molecular weight:	20.03 (H ₂ O)	Autoignition temperature:	Not available.
Appearance:	Clear liquid.	Flash point/Method:	Not available.
Odor:	Not available.	Melting point:	0°C (H ₂ O)
Physical state:	Liquid.	Boiling point:	100°C (H ₂ O)
pH:	Not available.	Freezing point:	Not available.
Vapor pressure:	Not available.		
Vapor density:	Not available.		
Solubility in water:	NA (H ₂ O)		
Specific gravity/density:	Not available.		

Section 10. Stability and Reactivity.

Chemical Stability:	Stable if stored under recommended conditions.
Conditions to Avoid:	NA
Incompatibilities:	Not available.
Hazardous Decomposition:	NA
Hazardous Polymerization:	Not available.

Section 11. Toxicological Information (see Section 3 on first page).

Acute data: May be fatal if inhaled, swallowed, or absorbed through skin. (Sodium Azide)

Chronic data: May alter genetic material. (Sodium Azide)

Section 12. Ecological Information (impact if released into environment).

Not listed 49CFR 172.101.

Section 13. Disposal Considerations.

RCRA Waste Number: P105. (Sodium Azide)

Section 14. Transport Information.

DOT: 1687 (Sodium Azide)

Section 15. Regulatory Information.

SEC. 302 (EHS) TP: 500; CERCLA RQ: 1,000. SARA Sec. 313 reporting; RCRA; OSHA 29CFR 1910.1000 Table z1; Cal EPA (Sodium Azide).

Section 16. Other Information.

Not available.