



# X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

NEX-XF1-CN

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixtures  
Product name : X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)  
Product code : NEX-XF1-CN

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000

[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)

International: 1-703-741-5970 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**GHS-US classification**

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]**

No labeling applicable

**GHS-US labeling**

No labeling applicable

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
WATER UNLABELED	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	87.0031	Not classified
DEUTERIUM OXIDE (D, 99.9%)	(CAS-No.) 7789-20-0 (EC-No.) 232-148-9	10.7206	Not classified
MALTOSE BINDING PROTEIN	(CAS-No.) 153131-94-3	1.3558	Not classified
SODIUM CHLORIDE (35CL, 99%)	(CAS-No.) 20510-55-8 (EC-No.) 231-598-3 (Unlabeled)	0.566	Xi; R36/37/38
DL-1,4-DITHIOTHREITOL (D10, 98%)	(CAS-No.) 3483-12-3 (Unlabeled) (EC-No.) 222-468-7 (Unlabeled)	0.1494	Xn; R22 Xi; R36/37/38
AMMONIUM ACETATE (15N, 98%+)	(CAS-No.) 86451-35-6 (EC-No.) 211-162-9 (Unlabeled)	0.1494	Xi; R36/37/38 R52
CALCIUM-44 CHLORIDE (44Ca)	(CAS-No.) 10043-52-4 (Unlabeled) (EC-No.) 233-140-8 (Unlabeled) (EC Index-No.) 017-013-00-2 (Unlabeled)	0.0537	Xi; R36
SODIUM AZIDE (1-15N, 98%+)	(CAS-No.) 26628-22-8 (Unlabeled) (EC-No.) 247-852-1 (Unlabeled) (EC Index-No.) 011-004-00-7 (Unlabeled)	0.002	Xn; R20/21 T; R23 Xn; R22 T; R24/25 T+; R28 Repr.Cat.1; R61

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER UNLABELED	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	87.0031	Not classified
DEUTERIUM OXIDE (D, 99.9%)	(CAS-No.) 7789-20-0 (EC-No.) 232-148-9	10.7206	Not classified
MALTOSE BINDING PROTEIN	(CAS-No.) 153131-94-3	1.3558	Not classified
SODIUM CHLORIDE (35CL, 99%)	(CAS-No.) 20510-55-8 (EC-No.) 231-598-3 (Unlabeled)	0.566	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
DL-1,4-DITHIOTHREITOL (D10, 98%)	(CAS-No.) 3483-12-3 (Unlabeled) (EC-No.) 222-468-7 (Unlabeled)	0.1494	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
AMMONIUM ACETATE (15N, 98%+)	(CAS-No.) 86451-35-6 (EC-No.) 211-162-9 (Unlabeled)	0.1494	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
CALCIUM-44 CHLORIDE (44Ca)	(CAS-No.) 10043-52-4 (Unlabeled) (EC-No.) 233-140-8 (Unlabeled) (EC Index-No.) 017-013-00-2 (Unlabeled)	0.0537	Eye Irrit. 2, H319
SODIUM AZIDE (1-15N, 98%+)	(CAS-No.) 26628-22-8 (Unlabeled) (EC-No.) 247-852-1 (Unlabeled) (EC Index-No.) 011-004-00-7 (Unlabeled)	0.002	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 STOT RE 2, H373

Name	Product identifier	%	GHS-US classification
WATER UNLABELED	(CAS-No.) 7732-18-5	87.0031	Not classified
DEUTERIUM OXIDE (D, 99.9%)	(CAS-No.) 7789-20-0	10.7206	Not classified
MALTOSE BINDING PROTEIN	(CAS-No.) 153131-94-3	1.3558	Not classified
SODIUM CHLORIDE (35CL, 99%)	(CAS-No.) 20510-55-8	0.566	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
DL-1,4-DITHIOTHREITOL (D10, 98%)	(CAS-No.) 3483-12-3 (Unlabeled)	0.1494	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
AMMONIUM ACETATE (15N, 98%+)	(CAS-No.) 86451-35-6	0.1494	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402
CALCIUM-44 CHLORIDE (44Ca)	(CAS-No.) 10043-52-4 (Unlabeled)	0.0537	Eye Irrit. 2, H319
SODIUM AZIDE (1-15N, 98%+)	(CAS-No.) 26628-22-8 (Unlabeled)	0.002	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 STOT RE 2, H373

Full text of R- and H- phrases: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of soap and water.
First-aid measures after eye contact	: Flush eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: The product itself does not burn.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Methods for cleaning up	: Collect spillage.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in freezer (-80°C). Protect from light, air and moisture.

#### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	0.29 mg/m <sup>3</sup> Lung damage. Cardiac impairment. Not classifiable as a human carcinogen.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	0.11 ppm Lung damage. Cardiac impairment. Not classifiable as a human carcinogen.
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup> Potential for dermal absorption
USA NIOSH	NIOSH REL (TWA) (ppm)	0.1 ppm Potential for dermal absorption
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.3 mg/m <sup>3</sup> Skin notation
USA OSHA	OSHA PEL (TWA) (ppm)	0.1 ppm Skin notation

<b>CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.

Additional information : Contains no substances with occupational exposure limits

#### 8.2. Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.

Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

*The properties listed below are for the solvent, the main component of this mixture.*

Physical state	: Liquid
Appearance	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: 6.0 - 8.0 at 25 °C (77 °F)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: 0 °C (32.0 °F)
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1 g/ml at 20 °C (68 °F)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Two years after receipt if stored as stated in "Storage" section. Re-QC after 2 years.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>SODIUM CHLORIDE (35CL, 99%) (20510-55-8)</b>	
LD50 oral rat	3000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 42000 mg/m <sup>3</sup> 1 h
ATE CLP (oral)	3000.000 mg/kg body weight

<b>SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))</b>	
LD50 oral rat	27 mg/kg
LD50 dermal rabbit	20 mg/kg
LC50 inhalation rat (mg/l)	37 mg/m <sup>3</sup>
ATE CLP (oral)	27.000 mg/kg body weight
ATE CLP (dermal)	20.000 mg/kg body weight
ATE CLP (vapors)	0.037 mg/l/4h
ATE CLP (dust, mist)	0.037 mg/l/4h

<b>MALTOSE BINDING PROTEIN (153131-94-3)</b>	
LD50 oral rat	> 90000 mg/kg

<b>DL-1,4-DITHIOHREITOL(D10, 98%) (3483-12-3 (Unlabeled))</b>	
LD50 oral rat	400 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight

<b>CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))</b>	
LD50 oral rat	2301 mg/kg

Skin corrosion/irritation	: Not classified
	pH: 6.0 - 8.0 at 25 °C (77 °F)
Serious eye damage/irritation	: Not classified
	pH: 6.0 - 8.0 at 25 °C (77 °F)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

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Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>SODIUM CHLORIDE (35CL, 99%) (20510-55-8)</b>	
LC50 fish 1	1294.6 mg/l - 96 h, Lepomis macrochirus (Bluegill) -
EC50 Daphnia 1	1661 mg/l - 48 h, Daphnia magna (Water flea) -
NOEC (chronic)	4000 mg/l - 7 d, Pimephales promelas (fathead minnow)-
<b>SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))</b>	
LC50 fish 1	5.46 mg/l - 96 h - Pimephales promelas (fathead minnow) -
ErC50 (algae)	0.35 mg/l - 96 h - Pseudokircheneriella subcapitata -
<b>DL-1,4-DITHIOHREITOL(D10, 98%) (3483-12-3 (Unlabeled))</b>	
EC50 Daphnia 1	27 mg/l Daphnia magna (Water flea) - 48 h
<b>CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))</b>	
LC50 fish 1	10650 mg/l - Lepomis macrochirus - 96 h
EC50 Daphnia 1	2400 mg/l - Daphnia magna (Water flea) - 48 h Method: OECD Test Guideline 202
<b>AMMONIUM ACETATE (15N, 98%+) (86451-35-6)</b>	
LC50 fish 1	56 mg/l Cyprinus carpio (Carp) - 48 h

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>DL-1,4-DITHIOHREITOL(D10, 98%) (3483-12-3 (Unlabeled))</b>	
Log Pow	0.05

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : Avoid release to the environment. Disposal must be done according to official regulations.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Dispose of as unused product.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

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### 14.3. Additional information

Other information : No supplementary information available.  
Special transport precautions : DOT/IMDG/IATA: Not dangerous goods.

### Overland transport

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

Special transport precautions : DOT/IMDG/IATA: Not dangerous goods.

### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

#### DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

#### WATER UNLABELED (7732-18-5)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

#### SODIUM CHLORIDE (35CL, 99%) (20510-55-8)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

#### SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))

Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

#### DL-1,4-DITHIOHREITOL(D10, 98%) (3483-12-3 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

#### CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

#### AMMONIUM ACETATE (15N, 98%+) (86451-35-6)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

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### 15.2. International regulations

#### CANADA

##### X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)

Listed on the Canadian DSL (Domestic Substances List)

##### SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)()

U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

#### DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### WATER UNLABELED (7732-18-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### SODIUM CHLORIDE (35CL, 99%) (20510-55-8)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### MALTOSE BINDING PROTEIN (153131-94-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### DL-1,4-DITHIOTHREITOL(D10, 98%) (3483-12-3 (Unlabeled))

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	



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CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

AMMONIUM ACETATE (15N, 98%+) (86451-35-6)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)				
<b>State or local regulations</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List				

WATER UNLABELED (7732-18-5)				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

SODIUM CHLORIDE (35CL, 99%) (20510-55-8)				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

SODIUM AZIDE (1-15N, 98%+) (26628-22-8 (Unlabeled))				
<b>State or local regulations</b>				
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

MALTOSE BINDING PROTEIN (153131-94-3)				
<b>State or local regulations</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List				

DL-1,4-DITHIOTHREITOL(D10, 98%) (3483-12-3 (Unlabeled))				
<b>State or local regulations</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List				

CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

AMMONIUM ACETATE (15N, 98%+) (86451-35-6)				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				

## SECTION 16: Other information

Other information : 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 not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1

# X-FILTERED NOESY NMR STANDARD (13C, 95%; 15N, 95%)

NEX-XF1-CN

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H300	Fatal if swallowed
H301	Toxic if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
R20/21	Harmful by inhalation and in contact with skin
R22	Harmful if swallowed
R23	Toxic by inhalation
R24/25	Toxic in contact with skin and if swallowed
R28	Very toxic if swallowed
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R52	Harmful to aquatic organisms
R61	May cause harm to the unborn child
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

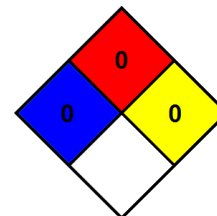
: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

### CIL Mixture SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*