



# SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 30/06/2014

Revision date:

Version: 1.0

**CLM-9474**

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

### 1.1. Product identifier

Product form : Mixtures  
Product name. : SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION  
Product code : CLM-9474

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial.  
For professional use only.

#### 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: 1-202-483-7616 (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 or 1999/45/EC

Not classified

#### Classification (GHS-US)

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

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 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	82.04	Not classified
SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%)	(CAS No)NA (EC no)200-289-5	17.96	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER UNLABELED	(CAS No)7732-18-5 (EC no)231-791-2	82.04	Not classified
SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%)	(CAS No)NA (EC no)200-289-5	17.96	Not classified

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

### 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 breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Wash with soap and plenty of water. Consult a physician. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Flush eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries 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	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
unsuitable extinguishing media	: Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

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

Emergency procedures	: Avoid breathing vapors, mist, or gas. Evacuate unnecessary personnel.
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### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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

Storage conditions : Store at room temperature away from light and moisture.  
Incompatible products : Strong bases. strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)		
Italy - Portugal- USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10.0000000000 mg/m <sup>3</sup> Inhalable fraction.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	10.0000000000 mg/m <sup>3</sup>

### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. Avoid all unnecessary exposure.



Hand protection : Wear suitable protective clothing and gloves. Wear protective gloves.  
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield. Chemical goggles or safety glasses.  
Skin and body protection : Wear suitable protective clothing.  
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear approved mask.  
Other information : When using, do not eat, drink or smoke.

## 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.  
Molecular mass : 18.02  
Color : Colourless.  
Odor : characteristic.  
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 : 0.0 °C (32.0 °F)

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Freezing point	: No data available
Boiling point	: 100.0 °C (212.0 °F)
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Completely miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive 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

Stable if stored under recommended conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION	
LD50 oral rat	> 90000 mg/kg
WATER UNLABELED (7732-18-5)	
LD50 oral rat	> 90000 mg/kg
SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
ATE (oral)	12600.000 mg/kg body weight

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 available No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available

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Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated. Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)</b>	
LC50 fish 1	- > 100,100 mg/l, Carassius auratus (goldfish) -

### 12.2. Persistence and degradability

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION</b>	
Persistence and degradability	Not available. Not established.

<b>WATER UNLABELED (7732-18-5)</b>	
Persistence and degradability	Not available.

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)</b>	
Persistence and degradability	Not available.

### 12.3. Bioaccumulative potential

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION</b>	
Bioaccumulative potential	Not available. Not established.

<b>WATER UNLABELED (7732-18-5)</b>	
Bioaccumulative potential	Not available.

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)</b>	
Bioaccumulative potential	Not available.

### 12.4. Mobility in soil

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION</b>	
Ecology - soil	Not available.

<b>WATER UNLABELED (7732-18-5)</b>	
Ecology - soil	Not available.

<b>SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) (NA)</b>	
Ecology - soil	Not available.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects	: Not available.
Other information	: Avoid release to the environment.

## 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.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

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### SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : 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 : 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

No additional information available

#### 15.2. International regulations

##### CANADA

#### SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

#### SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION()

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16: Other information

# SN-GLYCEROL 3-PHOSPHATE DISODIUM SALT 95% CP (GLYCEROL-13C3, 99%) 1.0 M AQUEOUS SOLUTION CLM-9474

## Safety Data Sheet

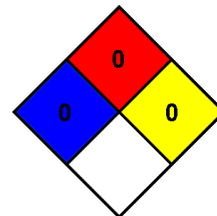
according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. None.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III 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*