

SAFETY DATA SHEET

according to regulation (EG) Nr. 1907/2006



Date of issue: 09.10.2013

Revision date: 03.08.2015

Version: 2.1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifiers

Product name:	Water (O-18 labeled)
EC-No. (non-labeled):	231-791-2
CAS-No. (non-labeled):	7732-18-5
CAS-No.(labeled):	14314-42-2
Index No.:	---
REACH Registration no.:	Not required

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

Identified uses: Solvent, chemical.

1.3 Details of the supplier of the safety data sheet

Supplier:	NUKEM Isotopes GmbH, Industriestrasse 13, 63755 Alzenau, Germany
Telephone:	+49 (0)6023 91 1726
Telefax:	+49 (0)6023 91 1614
Email:	Christian.Schuch@nukemisotopes.de

1.4 Emergency telephone number

24 hr. Emergency Telephone: **+1-703-253-4254** (English Contract No.: 01009)

2. HAZARDS INDICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008
This substance is not classified as dangerous according to directive 67/548/EEC.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

Not information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characterization

Substance:

CAS No. (description):	14314-42-2 (O-18 labeled water)
Formula:	H ₂ ¹⁸ O
Molar mass [g/mol]:	20,02

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. No further information available.

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No further information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No information available.

6.2 Environmental precautions

No information available.

6.3 Methods and material for containment and cleaning up

No information available.

6.4 Reference to other sections

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No further requirements.

7.2 Conditions for safe storage, including any incompatibilities

Store product tightly closed in a refrigerator, but temperature must not fall below 5 °C.

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Not required.

8.2 Exposure controls

No information available.

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8.3 Environmental exposure controls:

No information available.

9. PHYSICAL/CHEMICAL PROPERTIES

General Information

Appearance:	Form: Liquid at 20°C
Odor:	Odorless.
Odor threshold:	No information available.
pH-value at 20 °C:	6 – 8
Melting point:	0 – 2 °C (depending on O-18 enrichment)
Boiling point (1.013 hPa):	100 °C
Flash point:	No information available.
Flammability (solid, gaseous):	No information available.
Ignition temperature:	No information available.
Decomposition temperature:	No information available.
Self-igniting:	No information available.
Danger of explosion:	No information available.
Explosion limits:	Lower: No information available. Upper: No information available.
Oxidizing properties:	The substance or mixture is classified as oxidizing with the category 3.
Vapor pressure (at 20 °C):	23 hPa
Density at 20 °C:	1.110 g/cm ³
Evaporation rate:	No information available.
Partition coefficient: n-octanol/water:	No information available.
Viscosity, dynamic:	No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.3.

10.2 Chemical stability

Stable at recommended conditions.

10.3 Possibility of hazardous reactions

The generally known reaction partners of water.

10.4 Conditions to avoid

The generally known reaction partners of water.

10.5 Incompatible materials

The generally known reaction partners of water.

10.6 Hazardous decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No toxic effects are to be expected when the product is handled appropriately.

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11.2 Additional toxicological information

No further information available.

12. ECOLOGICAL INFORMATION

Not required.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR/RID, IMDG, IATA: ---

14.2 UN proper shipping name

ADR/RID, IMDG, IATA: No dangerous goods

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA: ---

14.4 Packing group

ADR/RID, IMDG, IATA: ---

14.5 Environmental hazards:

ADR/RID, IMDG, IATA: No

14.6 Special precautions for user

ADR/RID, IMDG, IATA: No information available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

No

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Disclaimer

Product is supplied for research and laboratory use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. See invoice or packing slip for additional terms and conditions of sale.