

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: 19/07/2011 Revision date: 07/09/2016 Supersedes: 19/07/2011 Version: 2.0

DLM-1063

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

1.1. Product identifier

Product form : Substance

Substance name : POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%)

EC no : 237-357-9 (Unlabeled)

 CAS No
 : 13761-79-0

 Product code
 : DLM-1063

 Formula
 : KD2PO4

Synonyms : prim.-Potassium phosphate / Potassium dihydrogen phosphate / Monopotassium phosphate

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : 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 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

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

No labelling applicable

GHS-US labelling

No labelling applicable

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Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (Main constituent)	(CAS No) 13761-79-0 (EC no) 237-357-9 (Unlabeled)	100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (Main constituent)	(CAS No) 13761-79-0 (EC no) 237-357-9 (Unlabeled)	100	Not classified

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

Name	Product identifier	%	GHS-US classification
POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (Main constituent)	(CAS No) 13761-79-0	100	Not classified

Full text of H-statements: see section 16

3.2. **Mixture**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

: Move out of dangerous area. Consult a physician and show this safety data sheet. First-aid measures general

First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Flush eyes with water as a precaution.

: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a First-aid measures after ingestion

physician.

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

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation. : May be harmful if swallowed. Symptoms/injuries after ingestion

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

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

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

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. **Emergency procedures**

Ensure adequate ventilation. Avoid breathing dust.

6.1.2. For emergency responders

No additional information available

Environmental precautions

Do not let product enter drains.

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6.3. Methods and material for containment and cleaning up

For containment : Pick up and arrar

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

preventive fire protection

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 : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

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









Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance

at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Crystalline.

Molecular mass : 138.10 g/mol (Labeled)

Colour : White.

Odour : No data available Odour threshold : No data available No data available Relative evaporation rate (butylacetate=1) : No data available : 252.6 °C (486.7 °F) Melting point Freezing point : No data available : > 450 °C (> 842 °F) Boiling point : No data available Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available

Relative density : $2.338 \text{ g/cm} 3 \text{ at } 25 ^{\circ}\text{C} (77 ^{\circ}\text{F})$ Solubility : Water: $208 \text{ g/l} \text{ at } 20 ^{\circ}\text{C} (68 ^{\circ}\text{F})$

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available

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: No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable if stored under recommended conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

Exposure to moisture.

Incompatible materials 10.5.

Strong oxidizing agents.

Hazardous decomposition products

Formed under fire conditions: Oxides of phosphorus, Potassium oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

: Not classified. Acute toxicity

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (13761-79-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 4640 mg/kg

Skin corrosion/irritation : Not classified

Skin - rabbit - No skin irritation - 4h (OCED Test Guideline 404)

Serious eye damage/irritation Not classified

Eyes - rabbit - No eye irritation

: Not available Respiratory or skin sensitisation

No data available

Germ cell mutagenicity Not available Carcinogenicity Not classified Reproductive toxicity : Not available Specific target organ toxicity (single exposure) : Not classified No data available

Specific target organ toxicity (repeated

exposure)

: Not classified

No data available

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Symptoms/injuries after inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Symptoms/injuries after skin contact

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

Toxicity

No additional information available

12.2. Persistence and degradability

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (13761-79-0)	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic
	substances.

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12.3. Bioaccumulative potential

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (13761-79-0)

Bioaccumulative potential Does not bioaccumulate.

12.4. Mobility in soil

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (13761-79-0)

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.

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

Waste disposal recommendations : 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

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

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%) (13761-79-0)

Listed on the Canadian DSL (Domestic Substances List)

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15.2.1. National regulations

No additional information available

15.3. US State regulations

POTASSIUM DIDEUTERIUM PHOSPHATE (D2, 98%)(13761-79-0)		
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

Other information : This product is not radioactive. The data given

: 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.

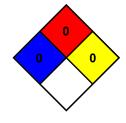
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

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 Multi-Solvent 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

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