

according to Regulation (EC) No 1907/2006

	di-Sodium hydrogen phosphate h	eptahydrate pure	
Revision date: 12.09.2023	Product code: 2524	.3	Page 1 of
SECTION 1: Identification of th	e substance/mixture and of the com	pany/undertaking	
<u>1.1. Product identifier</u> di-Sodium hydrogen phosph	ate heptahydrate pure		
REACH Registration Number: CAS No:	01-2119489797-11-XXXX 7782-85-6		
1.2. Relevant identified uses of the	e substance or mixture and uses advise	<u>d against</u>	
Use of the substance/mixture			
	stances as such or in preparations at indus main (administration, education, entertain		
Uses advised against			
Do not use for private purpo	ses (household).		
1.3. Details of the supplier of the s	safety data sheet		
Company name:	AnalytiChem GmbH		
Street:	Stempelstraße 6		
Place:	D-47167 Duisburg		
Telephone:	0203/5194-0	Telefax: 0203/5194-290	
E-mail:	info@analytichem.de		
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
E-mail:	produktsicherheit@analytichem.de		
Internet: Responsible Department:	www.analytichem.de Abteilung Produktsicherheit		
	U U		
1.4. Emergency telephone_ number:	Exposure, or Accident Call CHEMTF 1-800-424-9300 Outside USA and C	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls	
	accepted)		

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	Na2HPO4 * 7H2O
Molecular weight:	268,03 g/mol



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Hazardous components

CAS No	Chemical name			Quantity		
	EC No	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)					
7782-85-6	phosphoric acid, disodium salt, he	phosphoric acid, disodium salt, heptahydrate				
			01-2119489797-11-XXXX			
			•			

Full text of H and EUH statements: see section 16.

Specific Co	nc. Limits, M	-factors and ATE				
CAS No	EC No	Chemical name	Quantity			
	Specific Conc. Limits, M-factors and ATE					
7782-85-6		phosphoric acid, disodium salt, heptahydrate	100 %			
	inhalation: LC50 = > 0,83 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg					

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

Irritant

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids



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Hazardous combustion products In case of fire may be liberated: Phosphorus oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Keep container tightly closed. Do not breathe dust. Avoid dust formation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion Usual measures for fire prevention.

Advice on general occupational hygiene

Wash contaminated clothing prior to re-use.



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Do not breathe dust. Avoid dust formation. Avoid contact with skin, eyes and clothes.

Further information on handling

Wash contaminated clothing before reuse. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No data available

Further information on storage conditions

Store in a dry place.

storage temperature +5°C - +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	-	-			
DNEL type		Exposure route	Effect	Value		
7782-85-6	phosphoric acid, disodium salt, heptahydrate					
Worker DNEL, long-term inhalation sys				15,47 mg/m³		
Consumer DNE	EL, long-term	inhalation	systemic	6,63 mg/m³		

PNEC values

CAS No	Substance				
Environmental	Environmental compartment Value				
7782-85-6 phosphoric acid, disodium salt, heptahydrate					
Freshwater 0,05 mg/l					
Freshwater (intermittent releases) 0,5 m					
Marine water	0,005 mg/l				
Micro-organism	50 mg/l				

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm



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Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P1

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

•	i. Information on basic physical and chem		
	Physical state:	solid	
	Colour:	white	
	Odour:	odourless	
	Odour threshold:	No data available	
	Melting point/freezing point:		48 °C
	Boiling point or initial boiling point and		No data available
	boiling range:		
	Flammability:		No data available
	Lower explosion limits:		No data available
	Upper explosion limits:		No data available
	Flash point:		Х
	Auto-ignition temperature:		No data available
	Decomposition temperature:		48 °C
	pH-Value (at 25 °C):		8,7 - 9,3 (50 g/l)
	Viscosity / kinematic:		No data available
	Water solubility:		154 g/L
	(at 20 °C)		
	Solubility in other solvents		
	No data available		
	Dissolution rate:		No data available
	Partition coefficient n-octanol/water:		No data available
	Dispersion stability:		No data available
	Vapour pressure:		No data available
	Vapour pressure:		No data available
	Density (at 20 °C):		1,68 g/cm ³
	Relative density:		No data available
	Bulk density:		~800 kg/m ³
	Relative vapour density:		No data available
	Particle characteristics:		No data available



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11000 11000 11000		
2. Other information		
Information with regard to physical hazard classes		
Explosive properties		
No data available		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	100%	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
No data available:		
Viscosity / dynamic:	No data available	
Flow time:	No data available	
Further Information		
No data available		

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Strong acid Lead Acetate Antipyrine

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available



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Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7782-85-6	phosphoric acid, disodium salt, heptahydrate							
	oral	LD50 mg/kg	> 2000	Rat	Study report (2010)	OECD Guideline 420		
dermal	dermal	LD50 mg/kg	> 2000	Rat	Study report (2006)	OECD Guideline 402		
	inhalation (4 h) dust/mist	LC50 mg/l	> 0,83	Rat	Study report (1993)	EPA OPP 81-3		

Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

No data available

Further information

Irritant

SECTION 12: Ecological information

12.1. Toxicity

No data available



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
7782-85-6	phosphoric acid, disodium salt, heptahydrate							
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	REACh Registration Dossier	EU Method C.3	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202	
	Acute bacteria toxicity	(EC50 mg/l)	> 1000		activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209	

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

No data available

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains. Do not mix with other wastes.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.



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14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Marine transport (IMDG)						
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Air transport (ICAO-TI/IATA-DGR)						
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
14.6. Special precautions for user						
No dangerous good in sense of this tra						
14.7. Maritime transport in bulk according t	o IMO instruments					
No dangerous good in sense of this tra	ansport regulation.					
SECTION 15: Regulatory information						
15.1. Safety, health and environmental requ	lations/legislation specific for the substance or mixture					
EU regulatory information	· · · · · · · · · · · · · · · · · · ·					
Information according to 2012/18/EU						
(SEVESO III):	Not subject to 2012/18/EU (SEVESO III)					
National regulatory information						
Water hazard class (D):	1 clightly bazardous to water					
Additional information	1 - slightly hazardous to water					
No data available						

SECTION 16: Other information