

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 1 of 9

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

### 1.1. Product identifier

di-Sodium hydrogen phosphate dodecahydrate pure

REACH Registration Number: 01-2119489797-11-XXXX

CAS No: 10039-32-4 EC No: 231-448-7

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

# 1.3. Details of the supplier of the 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: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephoneFor Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,number:Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

No data available

# SECTION 2: Hazards identification

### 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 \* 12 H2O
Molecular weight: 358,14 g/mol



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 2 of 9

#### **Hazardous components**

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)					
10039-32-4	di-sodium hydrogenphosphate dodecahydrate			100 %		
	231-448-7 01-2119489797-11-XXXX					

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

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. Limits, M-factors and ATE				
10039-32-4	231-448-7	di-sodium hydrogenphosphate dodecahydrate			
	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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 3 of 9

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.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 4 of 9

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: < +15°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				Value		
10039-32-4	di-sodium hydrogenphosphate dodecahydrate					
Worker DNEL, long-term inhalation systemic 15,47 mg/m³						
Consumer DNEL, long-term		inhalation	systemic	6,63 mg/m³		

#### **PNEC** values

CAS No	Substance				
Environmental	Value				
10039-32-4	10039-32-4 di-sodium hydrogenphosphate dodecahydrate				
Freshwater 0,05 m					
Freshwater (intermittent releases) 0,5 mg/l					
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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 5 of 9

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

Physical state: solid
Colour: colourless
Odour: odourless

Odour threshold: No data available

Melting point/freezing point:

No data available
Boiling point or initial boiling point and

No data available

boiling range:

Flammability:

Lower explosion limits:

No data available

Upper explosion limits:

No data available

Flash point: X

Auto-ignition temperature:

Decomposition temperature:

PH-Value (at 20 °C):

No data available

>=34 °C

9,0 - 9,3 (50 g/l)

Viscosity / kinematic:

No data available

Water solubility: (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 No data available Vapour pressure: Vapour pressure: No data available Density (at 20 °C): 1,52 g/cm3 ~800-900 kg/m3 Bulk density: No data available Relative vapour density: Particle characteristics: No data available

#### 9.2. Other information

~218 g/L

Print date: 12.09.2023



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 6 of 9

# 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:

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

# **SECTION 10: Stability and reactivity**

### 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

# 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

# **Acute toxicity**

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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 7 of 9

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
10039-32-4	di-sodium hydrogenphosphate dodecahydrate						
	oral	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 420		
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2006)	OECD Guideline 402		
	inhalation (4 h) dust/mist	LC50 > 0,83 mg/l	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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 8 of 9

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
10039-32-4	di-sodium hydrogenphosphate dodecahydrate						
	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: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.

# Inland waterways transport (ADN)



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# di-Sodium hydrogen phosphate dodecahydrate pure

Revision date: 12.09.2023 Product code: 15238 Page 9 of 9

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 transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

### **SECTION 15: Regulatory information**

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

**EU** regulatory information

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

**National regulatory information** 

Water hazard class (D): 1 - slightly hazardous to water

Additional information
No data available

# **SECTION 16: Other information**