

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024 Version number 14 Revision: 11.04.2024 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Molecular formula: K2HPO4.3H2O • Trade name: di-Potassium hydrogen phpsphate trihydrate • SDS number: CH0550 · CAS Number: 16788-57-1 · EC number: 231-834-5 · Application of the substance / the mixture Chemicals products for laboratory • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: CARLO ERBA REAGENTS Chaussée du Vexin Parc d'Affaires des Portes - BP616 27106 VAL DE REUIL Cedex Téléphone: +33 (0)2 32 09 20 00 Télécopie: +33 (0)2 32 09 20 20 • Further information obtainable from: Q.A / Normative email: MSDS CER-SDS@cer.dgroup.it · 1.4 Emergency telephone number: Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel : 112 National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service) Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008
- The substance is not classified, according to the GB CLP regulation.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void

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- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

CAS: 16788-57-1 di-Potassium hydrogen phpsphate trihydrate

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· Identification number(s)

· EC number: 231-834-5

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• General information: No special measures required.

- After inhalation: Supply fresh air; consult a doctor in case of complaints.
- *After skin contact: Generally the product does not irritate the skin.*
- · After eye contact: Wash with plenty of water.
- After swallowing: If some symptoms persist seek for medical advice.
- Information for doctor: Show the doctor this Material Safety Data Sheet.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- · Suitable extinguishing agents:
- *CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.*
- 5.2 Special hazards arising from the substance or mixture
- In the absence of oxygen: Phosphine Phosphorus oxides (PxOy)

Potassium oxides.

- 5.3 Advice for firefighters
- · Protective equipment: Do not inhale gases in case or fire or combustion.
- · Additional information Keep receptacles cool with water spray.

### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

Provide suction extractors if dust is formed.

- 6.4 Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling No special measures required.

• Information about fire - and explosion protection: The product is not flammable.

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· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a well-ventilated place. Keep container tightly closed.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see section 7.
- Ingredients with limit values that require monitoring at the workplace: TLV not established.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- · Protection of hands: Not required.
- · Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Not required.
- Body protection:

*Choose body protection according to the amount and concentration of the dangerous substance at the work place.* 

- · Limitation and supervision of exposure into the environment
- In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· Risk management measures Keep good industrial hygiene.

· 9.1 Information on basic physical and chemical properties				
Molecular weight	228.23 g			
Appearance:				
Form:	Crystalline powder			
Colour:	White			
Odour:	Odourless			
Odour threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/freezing point:	>180 °C			
Initial boiling point and boiling ra	<b>inge:</b> Undetermined.			



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· Flash point:	Not applicable.	
Flammability (solid, gas):	Product is not flammable.	
Decomposition temperature:	Not determined.	
· Ignition temperature:	Not determined.	
• Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not applicable.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not applicable.	
• Evaporation rate	Not applicable.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
water:	Soluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
• 9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity See 10.3
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Phosphorus oxides (PxOy)
- Potassium oxides.
- Phosphine

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Ingestion: It can be harmfull if swallowed.
- · Inhalation: May be harmful if inhaled.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Other information (about experimental toxicology): No further relevant information available.
- · Target organ information
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.

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• 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.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: Foreseeable as non relevant.
- 12.2 Persistence and degradability No further relevant information available.
- · Method
- · Ecological information Not available
- Other information: The product is biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Not known to be hazardous to water (German classification -WGK).

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Smaller quantities can be disposed of with household waste.

- Reutilise if possible or contact a waste processors for recycling or safe disposal.
- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Chemical treatment of contaminated water.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number ADR/RID, ADN, IMDG, IATA	Void	
	roiu	
14.2 UN proper shipping name		
ADR/RID, ADN, IMDĞ, IATA	Void	
14.3 Transport hazard class(es)		
ADR/RID, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR/RID, IMDG, IATA	Void	



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· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	<b>ex II of</b> Not applicable.	
· UN "Model Regulation":	Void	

# **SECTION 15: Regulatory information**

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

- · SARA Section 355 (extremely hazardous substances) Substance is not listed.
- SARA Section 313 (specific toxic chemical listings) Substance is not listed.
- · Prop 65 Chemicals known to cause cancer Substance is not listed.

· Poisons Act

- **Regulated explosives precursors** Substance is not listed.
- Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- · Reportable poisons Substance is not listed.
- · Chemical safety assessment
- Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Q.A./Normative

• Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values · Sources Globally Harmonized System, GHS ADR/RID, IMDG, IATA PubChem : an open chemistry database at the National Institutes of Health (NIH) ECHA : European CHemicals Agency