Safety Data Sheet According to Regulation (EC) No 1907/2006

potassium dihydrogenorthophosphate

Version 1.0

Issue date: 25/09/2015 Revision date: 25/09/2015 SDS Record Number: CSSS-TCO-010-113448

Section 1 Identification of the substance/mixture and of the company/undertaking

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Identification on the label/Trade name: potassium dihydrogenorthophosphate/ MKP

Additional identification:

Identification of the product: CAS#7778-77-0; EC#231-913-4

Index Number: Not available

REACH registration No.: 01-2119490224-41-0031

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Manufacture of MKP including storage, transfer and packaging Manufacture of a substance. Industrial Use. Manufacture of detergents and maintenance products Industrial distribution. Industrial USE to formulate fertilisers product mixtures Formulation of fertilizers. Blending of fertilizers. Nutrient for yeast and in many fermentation processes in food and pharmaceutical sectors Use in Industrial manufacture of textiles. Use for manufacture of basic pharmaceutical products and pharmaceutical preparations Dilution of liquid soluble fertilizers. Use of fire extinguisher powder. Use of additive for the manufacture of ceramic products.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection Regulation Service Limited.

Supplier(Manufacturer): SICHUAN BLUE SWORD CHUANXI PHOSPHOCHEMICALS CO., LTD.

Address: ROOM 1412, ENTRANCE N2, GLOBAL CENTER, 1700 TIANFU

AVENUE NORTH SECTION, HI-TECH ZONE, CHENGDU, SICHUAN, CHINA

Contact person(E-mail): wuxiaohong@scbsc.com

Telephone: +86-028-87826642 +86-028-87825526 Fax:

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008			
Hazard classes/Hazard categories	Hazard codes		
N/A	N/A		

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable. **Precautionary statement:** Not applicable.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	
potassium dihydrogenorthophospha te	01-2119490224-41-0031	7778-77-0	231-913-4	>99%	

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice.

4.1.2 In case of skin contact:

Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes. Wash clothing before re-using.

4.1.3 In case of eyes contact:

In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical advice.

4.1.4 In case of ingestion:

Do not give water to drink. Do not induce vomiting. Rinse mouth with water. Seek medical attention if ill effect develops.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Foam, Powder, CO₂, Water spray.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the

substance or mixture

fire-fighters:

Oxides of phosphorus.

5.3 Special fire fighting methods and

special protective actions for

Use water stream to cool containers. Wear self-contained breathing apparatus,

rubber boots and thick rubber gloves.

Section 6 Accidental release measures

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6.1.1 For non-emergency personnel: Remove ignition sources. Provide adequate ventilation. Avoid inhalation of dust.

Avoid skin and eye contact.

6.1.2 For emergency responders: Safety glasses. Wear protective rubber clothing with splash guard. Wear impervious

rubber safety shoes.

6.2 Environmental Precautions: Prevent entry to sewers, soils and natural waters.

6.3 Methods for Containment and Cleaning Wet clean or vac

up:

Wet clean or vacuum up solids. Don't use a brush or compressed air for cleaning

surfaces or clothing. Clear spills immediately.

6.4 Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information: Not applicable.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Dust and/or fine particles, minimize inhalation exposure. Wash hands and other

exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes. Wash clothing before

re-using. Avoid contact with skin and eyes.

7.1.2 Advice on general occupational

hygiene:

Use only in a well-ventilated area. Contents may develop pressure upon prolonged storage. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest

or inhale. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder,

drill, grind, or expose empty containers to heat, sparks or open flames.

7.2 Conditions for safe storage, including

any incompatibilities:

Store in dry, cool area.

7.3 Specific end use(s): Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Not available.

8.1.2 Additional exposure limits under the

conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: A system of local and/or general exhaust is recommended to keep employee

exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use a flame proof exhaust ventilation

system.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses. **Hand protection:** Use rubber gloves.

Body protection: Skin covering working clothes; wear dust-proof overalls if large quantities of dust

are generated.

Respiratory protection: Approved dust mask should be used if dust are generated when handling this

material.

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Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: Solid

Colour: white

Odour: Odorless

Odour threshold: Not available

pH: Not available

Melting point/range (°C): 253°C

Boiling point/range (°C): > 723 K

Not available Flash point (°C): Not available **Evaporation rate:** Flammability limit - lower (%): Not available Flammability (solid, gas): Not available Ignition temperature (°C): Not available **Upper/lower flammability/explosive limits:** Not available Not available Vapour pressure (20°C): Vapour density: Not available

Relative Density: 2.33

Bulk density (kg/m³): Not available Water solubility (g/l): 208 g/L(20 °C) Not available n-Octanol/Water (log Po/w): **Auto-ignition temperature:** Not available Not available **Decomposition temperature:** Not available Viscosity, dynamic (mPa.s): **Explosive properties:** Not available Not available Oxidising properties: Molecular Formula: H₂KO₄P Molecular Weight: 136.09

9.2. Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Surface tension:Not availableDissociation constant in water(pKa):Not availableOxidation-reduction Potential:Not availableSpecific gravity:Not available

Section 10 Stability and reactivity

10.1 Reactivity:The substance is stable under normal storage and handling conditions.

10.2 Chemical stability: Stable at room temperature in closed containers under normal storage and handling

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conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Incompatible materials. Moisture. Extremely high temperatures. (Decomposition)

10.5 Incompatible materials: None.

10.6 Hazardous decomposition products: Oxides of phosphorus

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxikological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): >7100 mg/kg LD50(Dermal, Rabbit): > 7940 mg/kg LC50(Inhalation, Rat): > 0.83 mg/L air Skin corrosion/Irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT- single exposure: Not classified STOT-repeated exposure: Not classified

Section 12 Ecological information

Toxicity:

Acute toxicity		Time	Time Species Method		Evaluation	Remarks	
LC50	>100mg/L	96h	Fish	OECD 203	N/A	N/A	
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A	
EC50	>100mg/L	72h	Algae	OECD 201	N/A	N/A	

Persistence and degradability: Not available.

Bioaccumulative potential: Not bioaccumulative.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not PBT or vPvB substance.

Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in

compliance with national and regional requirements.

13.2 Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed.

Return for reuse or dispose according to national or local regulations.

Section 14 Transport information

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	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)	
UN-Number	Not regulated	Not regulated	Not regulated	
UN Proper shipping name	Not regulated	Not regulated	Not regulated	
Transport hazard Class	Not regulated	Not regulated	Not regulated	
Packaging group	Not regulated	Not regulated	Not regulated	
Environmental hazards	No	No	No	
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated	

Section 15 Regulation information

15.1	I Safety	/. health and	d environmental	regulations/leg	gislation s	pecific for	the substance	or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For

use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO X

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by EU No 453/2010

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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