

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product identifier:**

**Product name:** Monopotassium Phosphate  
**REACH Registration Number:** 01-2119490224-41-XXXX  
**CAS No:** 7778-77-0  
**EC No:** 231-913-4

**Relevant identified uses of the substance or mixture and uses advised against:**

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

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Label elements:** No significant hazard.

**Other hazards:** No data available.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:**

**Mixtures:**

#### 4. FIRST AID MEASURES

**Description of first aid measures:**

- Inhalation:** Move the exposed person to fresh air.
- Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin contact:** Wash off immediately with plenty of soap and water. Remove contaminated clothing.
- Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.

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

- Inhalation:** May cause irritation to respiratory system.
- Eye contact:** May cause irritation to eyes.
- Skin contact:** May cause irritation to skin.
- Ingestion:** May cause irritation to mucous membranes.

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

- Inhalation:** Seek medical attention if irritation or symptoms persist.
- Eye contact:** Seek medical attention if irritation or symptoms persist.
- Skin contact:** Seek medical attention if irritation or symptoms persist.
- Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use extinguishing media appropriate to the surrounding fire conditions.

**Special hazards arising from the substance or mixture:** Burning produces irritating, toxic and obnoxious fumes.  
Cool fire exposed containers with water spray.

**Advice for firefighters:** Wear suitable respiratory equipment when necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation of the working area. See section 8 for further information.

**Environmental precautions:** Do not allow product to enter drains. Prevent further spillage if safe.

**Methods and material for containment and cleaning up:**

Sweep up. Transfer to suitable, labelled containers for disposal.  
Clean spillage area thoroughly with plenty of water.

**Reference to other sections:** See sections 2, 8, 13 for further information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Adopt best Manual Handling considerations when handling, carrying and dispensing.  
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

**Conditions for safe storage, including any incompatibilities:**

Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers. Store at temperatures between 5°C and 20°C.

**Specific end use(s):** See section 1.2 for further information.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Exposure controls:**



**Appropriate engineering controls:** Ensure adequate ventilation of the working area.

**Individual protection measures:** Wear protective clothing.

**Eye/face protection:** Approved safety goggles.

**Skin protection – Hand protection:** Chemical resistant gloves (PVC).

**Respiratory protection:** Wear suitable respiratory equipment when necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties:**

<b>Appearance:</b>	Crystals
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Flash point:</b>	Not applicable
<b>pH:</b>	4.3 – 4.7
<b>Initial boiling point:</b>	> 450°C
<b>Partition coefficient (P):</b>	Not applicable
<b>Melting point:</b>	252.6°C
<b>Flammability (solid, gas):</b>	No data available
<b>Freezing Point:</b>	Not applicable.
<b>Density / Relative Density:</b>	2.33 g/cm <sup>3</sup>
<b>Autoignition temperature:</b>	No data available
<b>Water solubility:</b>	208 g/l
<b>Explosive properties:</b>	No data available
<b>Solubility:</b>	Soluble in water
<b>Viscosity:</b>	No data available
<b>Oxidising properties:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Fat Solubility:</b>	No data available

[cont...]

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### Other information:

**Conductivity:** No data available  
**Benzene content:** Not applicable  
**Surface tension:** No data available  
**VOC (Volatile organic compounds):** No data available  
**Lead content:** No data available

**Information with regard to physical hazard classes:** No data available

**Other safety characteristics:** No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No data is available on this product.

**Conditions to avoid:** Avoid sparks, flames, heat and sources of ignition.

**Incompatible materials:** Strong acids. Strong bases.

**Hazardous decomposition products:** Burning produces irritating, toxic and obnoxious fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on hazard classes as defined in Regulation (EC) No 1272/2008:

**Acute toxicity:** No data is available on this product.  
**Skin corrosion/irritation:** May cause irritation to skin.  
**Serious eye damage/irritation:** May cause irritation to eyes.  
**Respiratory or skin sensitisation:** May cause sensitisation by inhalation and skin contact.  
**Germ cell mutagenicity:** No data is available on this product.  
**Carcinogenicity:** No data is available on this product.  
**Reproductive toxicity:** No data is available on this product.  
**STOT-single exposure:** No data available.  
**STOT-repeated exposure:** Avoid prolonged or repeated exposure.  
**Aspiration hazard:** No data available.  
**Repeated or prolonged exposure:** Avoid prolonged or repeated exposure.

**Hazard Information:** See section 2 for further information.

**Toxicological information:** Monopotassium phosphate  
**Dermal Rat LD50:** >2000mg/kg  
**Oral Rat LD50:** >2000mg/kg  
**Inhalation Rat LC50/4h:** 0.83mg/l

**Information on other hazards:** No data available.

[cont...]

## 12. ECOLOGICAL INFORMATION

**Toxicity:**

**MKP:**

**Daphnia EC50/48h:** 100.00000 mg/l

**Algae IC50/72h:** 100.00000 mg/l

**Fish LC50/96h:** 100.0000 mg/l

**Rainbow Trout LC50/96h:** >100 mg/l

**Persistence and degradability:** No data is available on this product.

**Bioaccumulative potential:** No data is available on this product.

**Mobility in soil:** No data is available on this product.

**Results of PBT and vPvB assessment:** No data is available on this product.

**Endocrine disrupting properties:** No data is available on this product.

**Other adverse effects:** This substance is not identified as a PBT substance.  
No data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Dispose of in compliance with all local and national regulations.

**General information:** This material and its container must be disposed of in a safe way. Contact a licensed waste disposal company.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. This material and its container must be disposed of in a safe way.

**Disposal of packaging:** Do NOT reuse empty containers. This material and its container must be disposed of in a safe way.

## 14. TRANSPORT INFORMATION

**UN number:** The product is not classified as dangerous for carriage.

**UN proper shipping name:** The product is not classified as dangerous for carriage.

**Transport hazard class(es):** The product is not classified as dangerous for carriage.

**Packing group:** The product is not classified as dangerous for carriage.

**Environmental hazards:** The product is not classified as dangerous for carriage.

**Special precautions for the user:** The product is not classified as dangerous for carriage.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**  
The product is not classified as dangerous for carriage.

## 15. REGULATORY INFORMATION

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

**Regulations:** Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Regulation (EC) No 1907/2006 of the European parliament and of the council of 18 December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH) establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**Chemical Safety Assessment (CSA):** No data available.

**Note:** The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Acronyms:**

- @ - at
- < - less than
- > - more than
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS – Chemical Abstracts Service
- Cat. – Category
- CSA – Chemical Safety Assessment
- DNEL – Derived No-Effect Level
- EC – Effective Concentration
- EC OEL – European Commission Occupational Exposure Limit
- EINECS - European Inventory of Existing Commercial Chemical Substances
- GHS – Globally Harmonized System of Classification and Labelling of Chemicals
- H\*\* - Hazard Statements
- IATA – International Air Transport Association
- IMDG – International Maritime Code for Dangerous Goods
- L – Litre
- LC50 – Lethal Concentration, 50 percent
- LD50 – Lethal dose, 50 percent

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m<sup>3</sup> – metre cubed

mg – milligram

ml – millilitre

n.o.s. – Not Otherwise Specified

°C – degrees Centigrade

P\*\* - Precautionary Statements

PBT – Persistent, bio accumulative and Toxic

pH – Potential of Hydrogen

PNEC – Predicted No-Effect Level

RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

SDS – Safety Data Sheet

SG – specific gravity

UN – United Nations

vPvB – very Persistent, very Bio accumulative

**Legal disclaimer:**

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation.

This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.