

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

**Product identifier:**

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

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

**Description:** Fertiliser.  
**Intended use:** Fertiliser.

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

**Main hazards:** No Significant Hazard.

**Label elements:**

**Risk phrases:** No Significant Hazard.

**Other hazards:** No Significant Hazard.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:** Contains no hazardous ingredients.

**Hazardous ingredients:** Contains no hazardous chemicals.

**Further information:** Contains no hazardous chemicals.

## SAFETY DATA SHEET

### Monopotassium Phosphate

Issued: 24/04/2023

Page 2

#### 4. FIRST AID MEASURES

##### Description of first aid measures:

<b>Skin contact:</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Inhalation:</b>	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist. Remove victim to fresh air and keep at rest in position comfortable for breathing.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.
<b>Eye contact:</b>	Rinse eyes thoroughly (min. 15 minutes) with plenty of water holding the eyelids opened. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if irritation or symptoms persist.

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

<b>Skin contact:</b>	May cause irritation to skin.
<b>Inhalation:</b>	May cause irritation to respiratory system.
<b>Ingestion:</b>	May cause irritation to mucous membranes.
<b>Eye contact:</b>	May cause irritation to eyes.

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

<b>Inhalation:</b>	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
<b>Eye contact:</b>	Rinse eyes thoroughly (min. 15 minutes) with plenty of water holding the eyelids opened. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if irritation or symptoms persist.
<b>Skin contact:</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.

#### 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.

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

#### 6. ACCIDENTAL RELEASE MEASURES

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

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin.

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

[cont...]

# SAFETY DATA SHEET

## Monopotassium Phosphate

Issued: 24/04/2023

Page 3

### 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:** Personal protection equipment – See section 8.

## 7. HANDLING AND STORAGE

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

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

Keep in a cool, dry, well-ventilated area. Store in correctly labelled containers.  
Keep container tightly closed.

**Specific end use(s):** Fertiliser.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure controls:



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

**Individual protection measures:** Adopt best Manual Handling considerations when handling, carrying and dispensing.  
Avoid contact with eyes and skin.

**Eye/face protection:** Eye protection to the E166 standard should be worn to minimise contact.

**Skin protection – Hand protection:** Wear gloves. Gloves must be in accordance with EN374-3, tested with chemical K & L from the standard EN list. Gloves should have a minimum breakthrough time of 60 minutes for short-term handling operations. Consult with your glove supplier for advice on your specific requirements. Good glove hygiene and housekeeping practices should be followed.

**Skin protection – Other:** Cover skin to minimise contact. Remove and wash contaminated clothing.

**Respiratory protection:** Not normally required. Wear respiratory protection if ventilation is inadequate. Respiratory protection should meet the EN149 or EN405 standards for particulates (the class of filtration will be dependent on your application). A half or quarter face mask to the EN149 standard complete with particulate filters to EN143 (the class of filtration will be dependent on your application) can also be used. Contact your supplier for advice on your specific application.

[cont...]

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Appearance:</b>	Crystals
<b>Colour:</b>	White
<b>Odour:</b>	Slight
<b>Odour threshold:</b>	No data available
<b>pH:</b>	4.3 – 4.7
<b>Relative density:</b>	1.3 (H <sub>2</sub> O = 1 at 20°C)
<b>Vapour pressure:</b>	No data available
<b>Melting point:</b>	253°C
<b>Initial boiling point:</b>	>450
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Partition coefficient:</b>	No data available
<b>Autoignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Solubility:</b>	Soluble in water

### Other information:

<b>Conductivity:</b>	No data available
<b>Surface tension:</b>	No data available
<b>Gas group:</b>	No data available
<b>Benzene Content:</b>	No data available
<b>Lead content:</b>	No data available
<b>VOC (Volatile organic compounds):</b>	No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** Alkalis.

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

**Possibility of hazardous reactions:** Oxidising agents.

**Conditions to avoid:** Keep away from heat. Keep away from water.

**Incompatible materials:** Alkalis. Oxidising agents.

**Hazardous decomposition products:** Phosphorous Oxides, e.g.: P<sub>2</sub>O<sub>5</sub>. Burning produces irritating, toxic and obnoxious fumes.

**Further information:** Hygroscopic.

[cont...]

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

<b>Acute toxicity:</b>	No data is available on this product.
<b>Skin corrosion/irritation:</b>	May cause irritation to skin.
<b>Serious eye damage/irritation:</b>	May cause irritation to eyes.
<b>Respiratory or skin sensitisation:</b>	No Significant Hazard.
<b>Germ cell mutagenicity:</b>	No data is available on this product.
<b>Carcinogenicity:</b>	No data is available on this product.
<b>Reproductive toxicity:</b>	No data is available on this product.
<b>STOT – Single exposure:</b>	No data is available on this product.
<b>STOT – repeated exposure:</b>	No data is available on this product.
<b>Aspiration hazard:</b>	No data is available on this product.
<b>Repeated or prolonged exposure:</b>	No data is available on this product.

### Toxicological Information:

#### MKP:

<b>Dermal Rat LD50:</b>	>2000 mg/kg bw
<b>Oral Rat LD50:</b>	>2000 mg/kg
<b>Inhalation Rat LC50/4h:</b>	0.83 mg/l

## 12. ECOLOGICAL INFORMATION

### Toxicity:

#### MKP:

<b>Daphnia EC50/48h:</b>	100.0000 mg/l
<b>Fish LC50/96h:</b>	100.0000 mg/l
<b>Rainbow Trout LC50/96h:</b>	>100 mg/l

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

### Bioaccumulative potential:

**Partition coefficient: MKP:** No data available.

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

### Results of PBT and vPvB assessment:

<b>Persistence (P-):</b>	Not P.
<b>Bioaccumulation (B-):</b>	Not B.
<b>Toxicity (T-):</b>	Not T.

**Other adverse effects:** No Significant Hazard.

## SAFETY DATA SHEET

### Monopotassium Phosphate

Issued: 24/04/2023

Page 6

#### 13. DISPOSAL CONSIDERATIONS

<b>Waste treatment methods:</b>	Dispose of in compliance with all local and national regulations.
<b>General information:</b>	Dispose of in compliance with all local and national regulations.
<b>Disposal methods:</b>	Contact a licensed waste disposal company. Do not empty into drains; dispose of this material and its container in a safe way.
<b>Disposal of packaging:</b>	Do NOT reuse empty containers. Containers must be recycled in compliance with national legislation and environmental regulations. Empty containers can be cleaned with water.

#### 14. TRANSPORT INFORMATION

<b>UN number:</b>	The product is not classified as dangerous for carriage.
<b>UN proper shipping name:</b>	The product is not classified as dangerous for carriage.
<b>Transport hazard class(es):</b>	The product is not classified as dangerous for carriage.
<b>Packing group:</b>	The product is not classified as dangerous for carriage.
<b>Environmental hazards:</b>	The product is not classified as dangerous for carriage.
<b>Special precautions for the user:</b>	The product is not classified as dangerous for carriage.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	The product is not classified as dangerous for carriage.

#### 15. REGULATORY INFORMATION

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

<b>Regulations:</b>	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.
---------------------	---

[cont...]

# SAFETY DATA SHEET

## Monopotassium Phosphate

Issued: 24/04/2023

Page 7

**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
- 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

[cont...]

**SAFETY DATA SHEET**  
Monopotassium Phosphate

Issued: 24/04/2023

Page 8

**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.