



HURST SCIENTIFIC

Safety Data Sheet Potassium Dihydrogen Orthophosphate

SECTION 1: Identification

GHS Product identifier

Product name	Potassium Dihydrogen Orthophosphate
Product number	POTDIH-500gm, 1kg, 5kg
Brand	Hurstchem

Other means of identification

Potassium Dihydrogen Orthophosphate Anhydrous, Monopotassium dihydrogen phosphate, Potassium Acid Phosphate, Potassium Phosphate, monobasic, Potassium dihydrogen phosphate.

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a **Hazardous** substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as a **NON-Dangerous goods** according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

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- Eye damage/irritation, Cat. 2A
- Sensitization - skin, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation
H319	Causes serious eye irritation
Precautionary statement(s)	
P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...
P302+P352	IF ON SKIN: Wash with plenty of water/...
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container to ...

SECTION 3: Composition/information on ingredients

Mixtures

1. Potassium phosphate Monobasic

Concentration	100 %
CAS no.	7778-77-0

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth out with copious amounts of water and seek immediate medical attention.

Personal protective equipment for first-aid responders

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Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Dry chemical, Carbon Dioxide, foam or water spray.

Specific hazards arising from the chemical

Toxic gases may evolve.

Special protective actions for fire-fighters

Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

Further information

Hazchem code: None allocated.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment to avoid exposure. Ensure area is adequately ventilated and practice good personal hygiene.

Methods and materials for containment and cleaning up

Absorb with vermiculite or similar and place into a suitably labelled container for later disposal. Wash the affected area with water. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling

Wear appropriate protective clothing and use only in a wellventilated area. Keep containers closed when not in use and practice good personal hygiene. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area out of direct sunlight and away from incompatibles.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Ensure an adequate ventilation or exhaust system is in place.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses goggles,.

Skin protection

Gloves and laboratory coat.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Appearance

Powder

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Color	White
Odor	Odourless
Melting point/freezing point	253°C
Boiling point or initial boiling point and boiling range	Not Available
Flammability	Non Combustible
pH	5% solution @ 25°C: 4.1-4.5
Solubility	Water soluble
Vapor pressure	Not available
Density and/or relative density	2.34
Relative vapor density	Not available

SECTION 10: Stability and reactivity

Reactivity

Non-reactive under recommended conditions for use and storage.

Chemical stability

Stable under recommended conditions for use and storage.

Possibility of hazardous reactions

Polymerisation not expected to occur.

Conditions to avoid

Direct sunlight, dust generation and incompatibles.

Incompatible materials

Strong oxidisers

Hazardous decomposition products

Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

HEALTH EFFECTS:

Eye Contact May cause irritation resulting in redness, swelling and lacrimation, risk of serious damage.

Skin Contact May cause irritation resulting in itching and swelling.

Inhalation May cause irritation of the respiratory tract.

Ingestion May cause irritation to the gastrointestinal tract, resulting in nausea, vomiting and diarrhoea.

Skin corrosion/irritation

No classification.

Serious eye damage/irritation

Risk of serious eye damage.

Respiratory or skin sensitization

No classification.

Germ cell mutagenicity

No classification.

Carcinogenicity

Not an IARC listed chemical.

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Reproductive toxicity

No classification.

Specific target organ toxicity (STOT) - single exposure

No classification.

Specific target organ toxicity (STOT) - repeated exposure

No classification.

Aspiration hazard

No classification.

Additional information

Potassium phosphate Monobasic: rabbit LD50 skin > 4640mg/kg (4640mg/kg) National Technical Information Service. Vol. OTS0571153,
rat LDLo oral 4640mg/kg (4640mg/kg) BEHAVIORAL: SOMNOLENCE (GENERAL DEPRESSED ACTIVITY)

GASTROINTESTINAL: OTHER CHANGES National Technical Information Service. Vol. OTS0571153,

SECTION 12: Ecological information

Toxicity

LC50 Oryzias latipes -1,200 mg/l-48h.

Persistence and degradability

Not available for this mixture.

Bioaccumulative potential

Not expected to bio-accumulate.

Mobility in soil

Not available for this product.

Other adverse effects

Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines.

Other disposal recommendations

Special precautions Nil.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

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SECTION 15: Regulatory information

Chemical Safety Assessment

- Poison Schedule: Not scheduled.

SECTION 16: Other information

Further information/disclaimer

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

Preparation information

Disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

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