

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HAZCOM 2012 - GHS)
According to Canada Hazardous Products Regulation (WHMIS 2015)

Product name	Monopotassium phosphate anhydrous	
Product id	3048	
Revision date	17/10/2017	Revision: 1

1. Identification of the substance & the company

Product identifier	Monopotassium phosphate anhydrous
Type of product and use	Food Ingredient, specialty fertilizer, water treatment.
Supplier	ICL 622 Emerson Road - Suite 500 Creve Coeur, Missouri 63141, USA Tel:(314) 983-7500 Fax:(314) 983-7642 e-mail:msdsinfo@icl-group.com
	General Information: +1 800 244 6169 (Worldwide)
Emergency Telephone	Chemtrec: (800) 424-9300 Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887 In Canada call CANUTEC: 1 613 996 6666

2. Hazards identification

GHS classification	Product is not subject to classification according to GHS. No label elements required
NFPA Ratings (Scale 0-4)	Health = 0, Fire = 0, Reactivity = 0.
HMIS Ratings (Scale 0-4)	Health = 1, Fire = 0, Reactivity = 0

3. Composition / information on ingredients

Components	CAS No.	Weight %
Monopotassium Phosphate	7778-77-0	100

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4. First-aid measures

Eye contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes.
Skin contact	Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes.
Inhalation	In case of inhalation, remove person to fresh air.
Ingestion	No significant adverse health effects are expected if only small amount (less than a mouthful) are swallowed. NOTE: Never give an unconscious person anything to drink Do not induce vomiting.

Most important symptoms and effects, acute or delayed

None known

Notes to the physician	No specific antidote. Treat symptomatically and supportively. In case of ingestion DO NOT induce vomiting.
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5. Fire - fighting measures

Suitable extinguishing media	Material is not combustible. Water spray, carbon dioxide (CO ₂), dry chemical powder or appropriate foam.
Extinguishing media not to be used	None known.
Unusual fire and explosion hazards	Non-combustible. When heated to decomposition, may release poisonous and corrosive fumes of phosphorus oxides
Fire fighting procedure	In closed areas, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

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6. Accidental release measures

Personal precautions	Avoid dust formation. Avoid contact with skin, eyes and clothing. Slipping hazard due to spilled product
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Wash spill site with water after material pickup is complete.
Environmental precautions	Prevent product from entering drains.

7. Handling and storage

Handling	Avoid dust formation. Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin, eyes, and clothing. Wash thoroughly after work using soap and water. Remove material from clothing. Handle in a well-ventilated area. Avoid breathing the substance. Use respiratory protection when exposure is possible.
Storage	Keep in original sealed packaging in a dry, cool and ventilated area.

8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	Korea OEL	OSHA (PEL) Data
Monopotassium Phosphate 7778-77-0	Not determined	Not determined	Not determined

Ventilation requirements	Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m ³ , respirable particles, and 10 mg/m ³ , inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).
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Personal protective equipment:

- Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)
- Hand protection	Protective gloves.
- Eye protection	Safety glasses

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- Skin and body protection Body covering clothes

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties

Appearance	White crystalline powder
Odor	Odorless.
pH	ca. 4.5 (as a 1% solution)
Melting point/range	ca. 250°C
Boiling point/range	Not determined
Flash point	Not applicable
Evaporation rate (ether=1)	Not determined
Flammability (solid, gas)	Not determined
Flammable/Explosion limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Density	ca. 1100 kg/m ³
Solubility:	
- Solubility in water	ca. 230 g/l at 20°C
Partition coefficient (n-octanol/water)	Log Pow : ca. -2
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not determined

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10. Stability and reactivity

Reactivity	No reactive hazards known/expected.
Stability	Stable at normal conditions
Possibility of hazardous reactions	None known
Conditions to avoid	Exposure to moisture.
Materials to avoid	Alkalies.
Hazardous decomposition products	Phosphorus oxides.

11. Toxicological information

Acute toxicity:

- Rat oral LD50	7100 mg/kg
- Rabbit dermal LD50	> 7940 mg/kg

Skin corrosion/irritation Not irritant

Serious eye damage/ irritation Slight irritant

Respiratory or skin sensitisation No data available

Mutagenicity No data available

Carcinogenicity Information available provides no indication of a carcinogenic effect.
Not classified by IARC
Not included in NTP 14th Report on Carcinogens
Not classified as a carcinogen by USA OSHA

Reproductive toxicity No known significant effects or critical hazards.

Developmental toxicity No data available

Teratogenicity No data available

Specific Target Organ Toxicity (STOT) - Single exposure No data available

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Specific Target Organ Toxicity (STOT) - Repeat exposure No data available

12. Ecological information

Aquatic toxicity :

- LC50, Fish > 900 mg/L (golden orfey) (48 hour)
- 96 Hour-LC50, Fish > 100 mg/l (rainbow trout) (OECD 420 READ ACROSS)
- 72 hour - EC50, Marine algae >100 mg/L (desmodesmus subspicatus) (OECD 201 READ ACROSS)
- 48 Hour-EC50, Marine Invertebrate > 100 mg/l (Daphnia magna) (OECD 420 READ ACROSS)
- NOEC >100 mg/L (rainbow trout) (OECD 203 READ ACROSS)

Persistence and degradability Not relevant for inorganic substance.

Bioaccumulative potential Not expected to bioaccumulate.

Mobility in soil No data available

13. Disposal considerations

Waste disposal Observe all federal, state and local environmental regulations when disposing of this material. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal of Packaging They can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Empty containers should be disposed of in accordance with all applicable laws and regulations.

14. Transportation information

DOT Not regulated

IMDG Not regulated

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TDG (Canada) Not regulated

ICAO/IATA Not regulated

15. Regulatory information

USA	Reported in the EPA TSCA Inventory.
CERCLA/SARA - 302 Extremely Hazardous Substances	Not listed No CERCLA RQ is applicable.
- SARA 313	Not listed
EPCRA (SARA title III)	Hazard Categories Under Title III Rules (40 CFR 370): None
Canada	Listed in DSL
EU	Reported in EINECS
Australia	Listed in AICS
China - China inventory	Listed in IECSC
Japan	Listed in ENCS Listed in ISHL
Korea	Listed in the Korea Existing Chemicals Inventory (KECI)
Mexico	Listed in the National Inventory of Chemical Substances (INSQ)
New Zealand Inventory	Listed in NZIoC
Philippines	Listed in PICCS
Taiwan	Listed (TCSI)
Vietnam	Listed
Thailand	Listed

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16. Other information

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Prepared by HERA Division
telephone: +/972-8-6297835
telefax: +/972-8-6297832
www.icl-ip.com
e-mail:msdsinfo@icl-group.com

End of safety data sheet