



MATERIAL SAFETY DATA SHEET  
Potassium hydrogen phthalate

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:** Potassium hydrogen phthalate  
**Catalog Numbers:** P/5320/48, P/5320/50, P/5320/53, P/5320/60  
**Synonyms:** Potassium biphthalate; Potassium acid phthalate.  
**Company Identification:** Fisher Scientific UK  
 Bishop Meadow Road, Loughborough  
 Leics. LE11 5RG  
**For information in Europe, call:** (01509) 231166  
**Emergency Number, Europe:** 01509 231166

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	%	EINECS#
877-24-7	Potassium hydrogen phthalate	99+	212-889-4

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Not available*

**Potential Health Effects**

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.  
**Chronic:** No information found.

**Section 4 - First Aid Measures**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.  
**Skin:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
**Ingestion:** Do not induce vomiting. Get medical aid if irritation or symptoms occur.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:**

**Section 5 - Fire Fighting Measures**

**General** As in any fire, wear a self-contained breathing apparatus in pressure-demand,

**Information:** MSHA/NIOSH (approved or equivalent), and full protective gear.  
**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

#### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

##### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

##### Exposure Limits

CAS# 877-24-7:

##### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to minimize contact with skin.  
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Crystals

**Color:** white

**Odor:** odorless

**pH:** 3.8 - 4.0 (5% aq. sol.)

**Vapor Pressure:** Not applicable.

**Viscosity:** Not applicable.

**Boiling Point:** Not applicable.

**Freezing/Melting Point:** 295 - 300 deg C

**Autoignition Temperature:** Not available.

**Flash Point:** Not applicable.

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** 80 g/L @ 20°C

**Specific Gravity/Density:** 1.636

**Molecular Formula:** C8H5KO4

**Molecular Weight:** 204.22

#### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Incompatible materials, dust generation, excess heat.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, nitric acid.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, oxides of potassium, potassium fume.
<b>Hazardous Polymerization</b>	Will not occur.

#### Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 877-24-7: CZ4326000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 877-24-7:</b> Dermal, guinea pig: LD50 = >1 gm/kg; Oral, rat: LD50 = >3200 mg/kg;
<b>Carcinogenicity:</b>	Potassium hydrogen phthalate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

**Other:** Do not empty into drains.

#### Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

#### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

#### Section 15 - Regulatory Information

##### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 877-24-7: Not available

Canada

CAS# 877-24-7 is listed on Canada's DSL List

##### US Federal

TSCA

CAS# 877-24-7 is listed on the TSCA  
Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 12/12/1997

**Revision #9 Date** 2/15/2008

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