Potassium Phosphite liquid fertilizer

Section 1. Identification of substance/preparation and of the company/undertaking

1.1 Product Identification

Product name: Potassium Phosphite liquid fertilizer
CAS No.: 13977-65-6
Formula: KH2PO3
Synonyms: Monopotassium Phosphite solution

1.2 Relevant identified uses

Main use category: Industrial use
Professional use

Use of the substance/mixture: Use as raw material for fertilizer solutions in agriculture and horticulture.
Use as foliar and fertigation fertilizer

Function or use category: Fertilizers

1.3 Company/undertaking identification

Name: Qingdao Re-green Biological Technology Co., Ltd
Address: Rm.1920, South Tower of Zhongnan Jinshi Plaza, No.157 Jinggangshan Rd.,
Huangdao District,
Postal code: 266555
City: Qingdao, Shandong
Country: China
e-Mail: info@qdregreen.com

Section 2. Composition/information on ingredients

- P(P2O5): ........................................... 33%
- K(K2O): ........................................... 22%

Section 3. Hazards identification

Flash point: >70°C
Auto ignition temperature: Not applicable
Flammable limits in air: Not applicable

Section 4. First aid measures

First-aid measures general: Check the vital functions.
Unconscious: maintain adequate airway and respiration.
Respiratory arrest: artificial respiration or oxygen.
Cardiac arrest: perform resuscitation.
Victim conscious with laboured breathing: half-seated.
Victim in shock: on his back with legs slightly raised.
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Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital

First-aid measures after inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact: Wash immediately with lots of water. Soap may be used. If on skin, take off contaminated clothing. If on skin and if skin irritation or rash occurs, seek medical advice and attention.

First-aid measures after eye contact: Immediately flush eyes with plenty of water (>15min), occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion: Rinse mouth with water. Do not induce vomiting. Do not give an unconscious person anything to drink. Consult a doctor/medical service if you feel unwell.

Eyes: Immediately flush with water, continuing during 15 minutes. Get medical attention.

Ingestion: If conscious, immediately give two to four glasses of water and induce vomiting by touching finger to back to throat. Irritation or corrosion of the alimentary tract, with pain, vomiting.

Skin: Promptly flush water. If irritation persists, get medical attention. Inhalation: remove to fresh air.

### Section 5. Fire fighting measures/ Fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Extinguishing media for surrounding fires: All extinguishing media allowed. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media: No unsuitable extinguishing media known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard: Non combustible
- Explosion hazard: No direct explosion hazard.
- Reactivity: On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, potassium oxides).

#### 5.3. Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind, consider evacuation and have neighbourhood close doors and windows.

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.
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Dilute toxic gases with water spray.

**Protection during firefighting**

- Heat/fire exposure: compressed air/oxygen apparatus

### Section 6. Exposure controls / personal protection

**6.1. Personal precautions, protective equipment and emergency procedures**

**General measures**

- Ensure adequate air ventilation.
- Avoid all eye and skin contact and do not breathe vapour and mist.

**6.1.1. For non-emergency personnel**

- Protective equipment: Wear protective gloves/protective clothing/eye protection.
- Emergency procedures: Mark the danger area. Keep unnecessary and unprotected personnel from entering. Wash contaminated clothes.

**6.1.2. For emergency responders**

- Protective equipment: Wear protective gloves/protective clothing/eye protection. Wear suitable respiratory equipment in case of insufficient ventilation or in case of prolonged exposure.

**6.2. Environmental precautions**

- Prevent spreading in sewers. Prevent soil and water pollution. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**6.3. Methods and material for containment and cleaning up**

**For containment**

- Stop leak if safe to do so.
- Any spillage should be cleaned up immediately.
- Collect spill in closed and suitable containers for disposal.
- Take up rest of liquid spill into absorbent material sand, earth, vermiculite.
- Scoop absorbed substance into closing containers.

**Methods for cleaning up**

- Clean contaminated surfaces with an excess of water.
- Wash clothing and equipment after handling.

**Other information**

- Dispose the product, depending on the degree and type of contamination, either as fertilizer or in an authorized waste disposal site.

### Section 7. Handling and storageling and storage

- Store away from combustible materials and heat in area of low fire risk.
- Spill or leak: contain with commercial absorbent, diking up large spills. Keep combustible materials away.
- Mop up or pump up into containers, e.g steel or plastic. Close and store as above. Sliding risk in case of spill or leak.
- Do not allow to evaporate to dryness
- Do not reuse container
- Do not use packing materials made of copper alloy or galvanized metals

### Section 8. Physical and chemical properties

- **Material:** phosphorous acid, potassium hydroxide
- **Appearance:** Colorless

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**Potassium Phosphite liquid fertilizer**

Odor: odorless
Specific gravity: 1.52
Solubility in water: complete
pH(1:250): 6.5

### Section 9. Stability

Stability: stable

### Section 10. Ecological information

Degradability: Not applicable.

### 10. Ecological information

Degradability: Not applicable.

### 11. Transport information

NOT DANGEROUS

### 12. Other information

**Information for the reader:**

The information provided in this Safety Data Sheet is given in good faith and belief in its accuracy based on our knowledge of the substance/preparation concerned at the date of publication. It does not imply the acceptance of any legal liability or responsibility whatsoever by the company for the consequences of its use or misuse in any particular circumstances.