

## PRODUCT INFORMATION SHEET 产品资料单

# Potassium Monopersulfate Compound

### Description

Potassium monopersulfate compound is a free-flowing, white granular solid, soluble in water. It is present as a component of a triple salt including potassium monopersulfate, potassium sulfate and potassium bisulfate with the formula  $2\text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$ . The oxidation potential of potassium monopersulfate compound is derived from its peracid chemistry.

### Technical Information

- ☞ Chemical Name: Potassium Monopersulfate
- ☞ Synonyms: Potassium Peroxymonosulfate
- ☞ Molecular Formula:  $\text{K}_2\text{SO}_4 \cdot \text{KHSO}_4 \cdot 2\text{KHSO}_5$
- ☞ Molecular Weight: 614.7
- ☞ CAS Number: 70693-62-8

Product Properties	Standard Specifications
Active Oxygen, %	4.5 min.
Active Component ( $\text{KHSO}_5$ ), %	42.0 min.
Bulk Density, g/L	1000 min.
Particle Size Distribution, %	
Through 20 mesh	100
Through 200 mesh	10 max.
PH, at 25°C	
1% solution	2.0~2.3
3% solution	1.7~2.0
Solubility, g/l (20°C water)	256
Stability, % active oxygen loss/month	1 max.
Moisture, %	0.5 max.
Appearance	White granular solid, free-flowing
Packing	25 kg PP-PE bag

### Applications

Potassium monopersulfate compound provides powerful non-chlorine oxidation for a wide variety of industrial and consumer uses. It's applications may be found in oral hygiene formulations, pool and spa shock and disinfection, paper recycling, printed circuit board etching, wool shrink proofing, laundry bleaches, precious metal extraction process. Potassium monopersulfate compound is an important auxiliary agent in organic synthesis for oxidizing plenty of organics and functioning as the epoxy oxidizer of the twin bonds of organic chemicals. It's also a free radicle introductory agent in many polymeric reactions. Potassium monopersulfate can be used to oxidize hydrogen sulfide ( $\text{H}_2\text{S}$ ) and other reduced sulfur

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compounds, such as mercaptans, sulfides, disulfides, and sulfites in waste water treatment. It's also an oxygen releasing agent in aquiculture and low temperature bleaching agent in detergent formulations.

### Handling and Storage

#### Storage

- Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat. Store at temperatures less than 30 °C.
- Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.
- Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

#### Handling

- Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- Prevent contact with combustible or organic materials.
- Label containers and keep them tightly closed when not in use.
- Wash thoroughly after handling.

### First-aid Measures

- **Inhalation**- Remove affected person to fresh air. Do not use mouth-to-mouth resuscitation. Seek medical attention if effects persist.
- **Eye contact**- Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- **Skin contact**- Wash affected skin with soap and mild detergent and large amounts of water.
- **Ingestion**- Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation. Seek medical service immediately.

### Shipping Information

- Proper Shipping Name: Potassium Monopersulfate
- UN Number: UN3260
- Hazard Class: 8
- Labels: 8 (Corrosive)
- Packing Group: II

**Please read the MSDS for this chemical before using**