

Material Safety Data Sheet

POTASSIUM PEROXIDE

Section 1 - Product Identification

Product Name : Potassium Peroxide
CAS No. : 17014-71-0
Synonym : Dipotassium peroxide
Company Identification : Tradeasia International Pte. Limited
Address :
133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Section 2 – Composition/Information on Ingredients

Substances

Name of substance	Potassium Peroxide
Identifiers	
CAS No	17014-71-0
Molecular formula	K ₂ O ₂
Molar Mass	110.195 g/mol



Section 3 – Hazardous Ingredients & Occupational Exposure Limits

Classification of the substances or mixture

No data available

Label Elements

GHS Label elements, including precautionary statements

Hazard Pictogram(s):  

Signal Word: Warning

Hazard Statements:

H272 (100%): May intensify fire; oxidizer [Danger Oxidizing liquids; Oxidizing solids]

H315 (100%): Causes skin irritation [Warning Skin corrosion/irritation]

H319 (100%): Causes serious eye irritation [Warning Serious eye damage/eye irritation]

Precautionary Statements

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

P220 Keep away from clothing and other combustible materials.

P221 Take any precaution to avoid mixing with combustibles/...

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face 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.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing.
P370+P378 In case of fire: Use ... to extinguish.
P501 Dispose of contents/container to ...
Supplemental Hazard Statements: None known

Hazards Not Otherwise Classified: None known

Section 4 – First-Aid Measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: remove from exposure; support respiration.

Eye contact: irrigate with large quantities of water for at least 15 min.; get medical attention for caustic burns.

Skin Contact: flush with water; treat caustic burns.

Ingestion: give large amount of water; do NOT induce vomiting; get medical attention.

Notes to physician: Treat symptomatically

Section 5 – Employee Protection

If material on fire or involved in fire: Use dry chemical, graphite, or dry earth. Use water only if flooding quantities are available. Apply water from as far a distance as possible.

FLOOD WITH WATER FROM A PROTECTED AREA.

Evacuation: If fire becomes uncontrollable - consider evacuation of one-third (1/3) mile radius.

In case of fire, water should be applied by the sprinkler system or by hose from a safe distance, preferably with a fog nozzle. Foam may be necessary instead if the peroxide is diluted in a low-density flammable solvent. Portable extinguishers should not be used except for very small fires. Peroxides threatened by fire should be wetted from a safe distance for cooling. /Peroxides, Organic and Inorganic/

Section 6 – Accidental Release Measures

Excerpt from ERG Guide 144 [Oxidizers (Water-Reactive)]: As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. SPILL: Increase, in the downwind direction, as necessary, the isolation distance shown above. FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. (ERG, 2016)

Spills should be cleaned up promptly using non-sparking tools and an inert, moist diluent such as vermiculite or sand. Sweepings may be placed in open containers or polyethylene bags and the area washed with water and detergent. Spilled, contaminated, waste or questionable peroxides should be destroyed. /Peroxides, Organic and Inorganic/

Section 7 – Handling and Storage

PROTECT AGAINST PHYSICAL DAMAGE & MOISTURE. SEPARATE FROM COMBUSTIBLE, ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS. DO NOT STORE IN AREAS SUBJECT TO MOISTURE. IMMEDIATELY REMOVE & DISPOSE OF ANY SPILLED PEROXIDE.

Section 8 – Exposure Controls/Personal Protection

Persons handling peroxides should use safety glasses with side shields, goggles or face shield for eye protection. Emergency eyewash facilities should be provided. Gloves, aprons and other protective clothing as necessary should be used to prevent skin contact. Clothing and equipment that generate static electricity should be avoided. Smoking should be prohibited. /Peroxides, Organic and Inorganic/

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Granular solid

Color: Yellow

Odor: Not available

Odor threshold: Not available

pH: Not applicable

Melting/Freezing point: 490 °C

Relative density: greater than 1 at 68 °F (USCG, 1999)

Solubility: Reacts with water

Other data

No data available

Section 10 – Stability and Reactivity

Reacts exothermically with water (or moisture in the air) to give oxygen and a caustic solution, potassium hydroxide [NFPA 491M] .

Reactivity: No data available

Chemical Stability: No data available

Possibility of hazardous reaction: No data available

Conditions to Avoid: No data available

Incompatible Materials: No data available

Hazardous Decomposition Products: No data available

Hazardous polymerization: No data available

Section 11 – Toxicological Information

The main toxic effect of most peroxides is irritation of skin, mucous membranes and eyes. Prolonged or intense skin contact or splashes in the eyes may cause severe injury. Some organic peroxide vapors are irritating and may also cause headaches, intoxication similar to alcohol, and lung edema in inhaled in high concentrations. Some are ... skin sensitizers. Dialkyl peroxides are generally not as strongly irritating, and the diacyl peroxides are the least irritating of the peroxides. They are extremely irritating and corrosive to the eyes, with risk of blindness, and may cause serious injury or death if ingested in sufficient quantity. /Peroxides, Organic and Inorganic/

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity following single exposure: No data available

Specific target organ toxicity following repeated exposure: No data available

Aspiration hazard: No data available

Information on likely routes of exposure

Ingestion: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Additional Information: No data available

Section 12 – Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: No data available

Other adverse effects: No data available

Section 13 – Disposal Considerations

Product

Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

In accordance with DOT/IMDG/IATA/ADR

Proper Shipping Name: Potassium Peroxide

UN: UN1491

Hazard Class: 5

Packing Group: I

Additional Information:

No data available

Section 15 – Regulatory Information

1. US Federal regulations

No data available

2. International regulations

No data available

3. National regulations

No data available

4. US State regulations

POTASSIUM PEROXIDE

State or local regulations	No data available
----------------------------	-------------------

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.