133 Cecil Street # 12-03 Keck Seng Tower, Singapore 069535, Republic Of Singapore **Tel**. +65 6227 6365 - **Fax**. +65 6225 6286

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# Material Safety Data Sheet Potassium Persulfate

## **Section 1: Chemical Product and Company Identification**

Product Name : Potassium Persulfate

Chemical Formula :  $K_2S_2O_8$ 

Company Identification : Tradeasia International Pte Ltd Email : contact@chemtradeasia.com

### **Section 2: Composition and Information on Ingredients**

Composition:

Name	CAS#	% by Weight
Potassium Persulfate	7727-21-1	100

Toxicological Data on Ingredients: Potassium Persulfate LD50: Not available. LC50: Not available.

### **Section 3: Hazards Identification**

**Potential Acute Health Effects:** Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive, permeator). Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:** CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

#### **Section 4: First Aid Measures**

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes while keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:** Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

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### **Section 5: Fire and Explosion Data**

Flammability of the Product: Non-flammable. Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable

**Flammable Limits**: Not applicable. **Products of Combustion**: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: Not applicable.

Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.

### **Section 6: Accidental Release Measures**

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:** Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

### **Section 7: Handling and Storage**

**Precautions:** Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not breathe dust. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

**Storage:** Oxidizing materials should be stored in a separate safety storage cabinet or room.

### **Section 8: Exposure Controls/Personal Protection**

### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

### **Section 9: Physical and Chemical Properties**

Physical state and appearance : Solid. Odor : None.

Taste : Not available.

Molecular Weight : 270.32 g/mole
Color : Not available.

pH (1% soln./water) : Not available.

Boiling Point : Not available.

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Melting Point : Decomposes 100°C (212°F)

Critical Temperature : Not available. Specific Gravity : 2.477 (Water = 1)**Bulk Density** : Not applicable. Vapor Pressure : Not available. Vapor Density : Not available. Volatility : Not available. Odor Threshold : Not available. Water/Oil Dist. Coeff. : Not available. Ionicity (in Water) : Not available.

Dispersion Properties : See solubility in water.

Solubility : Partially soluble in cold water.

# Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature**: Not available. **Conditions of Instability**: Not available.

**Incompatibility with various substances**: Not available.

Corrosivity: Non-corrosive in presence of glass. Special Remarks on Reactivity: Not available. Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

### **Section 11: Toxicological Information**

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans: Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Slightly hazardous in case of skin contact (corrosive, permeator).

Special Remarks on Toxicity to Animals: Not available.

**Special Remarks on Chronic Effects on Humans**: Not available. **Special Remarks on other Toxic Effects on Humans**: Not available.

## **Section 12: Ecological Information**

**Ecotoxicity:** Not available. **BOD5 and COD**: Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation**: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

## **Section 13: Disposal Considerations**

**Waste Disposal:** 

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## **Section 14: Transport Information**

**DOT Classification:** CLASS 5.1: Oxidizing material. **Identification:** Potassium persulfate: UN1492 PG: III **Special Provisions for Transport**: Not available.

### **Section 15: Other Regulatory Information**

Federal and State Regulations: TSCA 8(b) inventory: Potassium persulfate.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). WHMIS (Canada): CLASS C: Oxidizing material. CLASS D-2A: Material causing other toxic effects (VERY

TOXIC).

**DSCL** (**EEC**): R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 0 Reactivity: 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):** 

Health: 2

Flammability: 0 Reactivity: 0 Specific hazard:

# **Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

#### **Section 16: Other Information**

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.