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TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
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POTASSIUM PERSULFATE

1. Product Identification

Synonyms: Peroxydisulfuric acid, dipotassium salt; dipotassium persulfate; Potassium Peroxydisulfate

CAS No.: 7727-21-1

Molecular Weight: 270.31

Chemical Formula: $K_2S_2O_8$

Product Code: 32645, A-32645

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Potassium Persulfate	7727-21-1	97 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. High concentrations can cause pulmonary edema.

Ingestion: Irritating to the gastro-intestinal tract, mildly toxic in large amounts. Abdominal pain, vomiting, diarrhea may occur.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and pain. May cause dermatitis, burns, and moderate skin necrosis. Persulfate allergy is not uncommon and manifest itself in the form of a skin rash.

Eye Contact: Causes irritation, redness, and pain. May cause burns.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: Allergic persons may develop skin rash.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Explosion: No information found

Fire Extinguishing Media: Use water spray to blanket fire, cool fire exposed containers, and to flush nonignited spills or vapors away from fire. Do not allow water runoff to enter sewers or waterways.



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Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded and engineering controls are not feasible, a full face piece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White powder.

Odor: Odorless.

Solubility: 4.7 g in 100 g water.

Specific Gravity: 2.48

pH: Aqueous solution is acidic.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not applicable.

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

Vapor Density (Air=1): 9.30

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperatures

Metals other than stainless steel are apt to cause decomposition of persulfate solutions

Hazardous Decomposition Products: Oxides of sulfur and the contained metal. Oxygen is released.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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Hazardous Polymerization: Will not occur.

Incompatibilities: Powdered metals, phosphorus, hydrides, organic matter, halogens, acids, alkalis.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Oral rat LD50: 802 mg/kg.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Proper Shipping Name: POTASSIUM PERSULFATE

Hazard Class: 5.1

UN/NA: UN1492

Packing Group: III

15. Regulatory Information

Safety, health and environmental: Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture

REACH Restrictions: The components of this product are not subject to restrictions.

REACH Authorisation: The components of this product are not subject to authorization.

Chemical Safety Assessment : It has not been carried out.

16. Other Information

Product Use:

Laboratory Reagent