

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM PERSULPHATE AR

#### 1. Product Identification

CAS No.: 7775-27-1

Product Coad: S0196805000

Molecular Weight: 238.03  
Chemical Formula: Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>

#### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
SODIUM PERSULPHATE	7775-27-1	90 - 100%	Yes

#### 3. Hazards Identification

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include sore throat, shortness of breath, inflammation of nasal passages, coughing, and wheezing. May cause lung edema, a medical emergency. Any exposure may cause an allergic reaction. Asthma-like symptoms and life-threatening shock may result.

**Ingestion:** Causes severe irritation and possible burns to the mouth and throat. Gastrointestinal disturbances may be expected with nausea, abdominal pain, and vomiting.

**Skin Contact:** Causes severe irritation or burns. Symptoms include redness, itching and pain. May cause allergic skin reactions.

**Eye Contact:** Can cause severe irritation or burns with eye damage.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** Persons with impaired respiratory function may be more susceptible to the effects of the substance.

#### 4. First Aid Measures

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

**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 while removing contaminated clothing and shoes. Get medical attention immediately. 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. Heating or contact with water releases oxygen which may intensify combustion in an existing fire.

**Explosion:** An explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents. Strong oxidants may explode when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapor explosions.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire. Do not use water.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Sealed containers may rupture when heated.

#### 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8

#### 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.

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#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** - ACGIH Threshold Limit Value (TLV):0.1 mg/m<sup>3</sup> (TWA), Persulfates, Sodium

**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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece 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. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

**WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**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 a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

#### 9. Physical and Chemical Properties

**Appearance:** White powder.

**Odor:** Odorless.

**Solubility:** Appreciable (> 10%)

**Specific Gravity:** 2.40

**pH:** 6.0 (1% solution)

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

**Boiling Point:** No information found.

**Melting Point:** 180C (356F) Decomposes.

**Vapor Density (Air=1):** No information found.

**Vapor Pressure (mm Hg):** No information found.

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

#### 10. Stability and Reactivity

**Stability:** Unstable. Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperatures. Stability decreases in the presence of moisture. 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.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Reducing agents, organic material, sodium peroxide, water and powdered metals especially aluminum.

**Conditions to Avoid:** Moisture, heat, flame, ignition sources, shock, friction, incompatibles.

#### 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Peroxydisulfuric Acid Disodium Salt	No	No	None

(7775-27-1)

#### 12. Ecological Information

**Environmental Fate:** No information found. **Environmental Toxicity:** No information found.

#### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

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### SODIUM PERSULPHATE AR

#### Domestic (Land, D.O.T.)

**Proper Shipping Name:** SODIUM PERSULFATE

**Hazard Class:** 5.1

**UN/NA:** UN1505

**Packing Group:** III

**Information reported for product/size:** 12KG

#### International (Water, I.M.O.)

**Proper Shipping Name:** SODIUM PERSULFATE

**Hazard Class:** 5.1

**UN/NA:** UN1505

**Packing Group:** III

**Information reported for product/size:** 12KG

#### 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No

Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** 2P **Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### 16. Other Information

**Product Use:** Laboratory Reagent.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**SODIUM PERSULPHATE AR**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation 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.

**End of document**