

MATERIAL SAFETY DATA SHEET

Product Name: Sodium persulphate

CAS No.: 7775-27-1

Version: 0

1. Identification

Product Code : 90560
Company Name : Advent Chembio Private Limited
Address : W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail : info@adventchembio.com
WEBSITE : www.adventchembio.com
Company Phone Number : 022-27690837

2. Composition/Information on Ingredients

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

3. Hazards Identification

Emergency Overview : DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE BURNS TO SKIN AND EYES.
CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION.

Saf-T-Data

Health Rating : 3 - Severe (Life)
Flammability Rating : 1 - Slight
Reactivity Rating : 3 - Severe (Oxidizer)
Contact Rating : 3 - Severe (Life)

Potential Health Effects

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.

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium persulphate**CAS No.:** 7775-27-1**Version:** 0**4. First Aid Measures**

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- 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 gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician 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

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium persulphate**CAS No.:** 7775-27-1**Version:** 0

- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste.
Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas.
Inform authorities if large amounts are involved.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

- Precautions for safe handling** : 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.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

8. Exposure Controls Personal Protection**Control parameters****Occupational exposure limits**

- ACGIH Threshold Limit Value (TLV) : 0.1 mg/m³ (TWA), Persulfates, Sodium

Ventilation System

- : A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. 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):

- : For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face 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 full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other

- : Clothing contaminated with this material may be an increased fire hazard. Wash contaminated clothing as soon as possible.

Respiratory protection

- : In case of inadequate ventilation use suitable respirator.

MATERIAL SAFETY DATA SHEET

Product Name: Sodium persulphate

CAS No.: 7775-27-1

Version: 0

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and Chemical Properties

Appearance : White powder.
 Odor : Odorless
 pH : 6.0 (1% solution)
 Melting point/freezing point : 180C (356F) Decomposes.
 Initial boiling point and boiling range : No information found
 Flash Point : No information found
 Vapor pressure : No information found.
 Vapor density : No information found
 Relative density : 2.40
 Solubility in water : Appreciable (> 10%)
 Solubility (other) : No data available.
 Formula : Na₂O₈S₂
 Molecular Weight : 238.03 g/mol

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 : This substance does not polymerize.

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

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

1. Toxicological Information

Toxicological Data:

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

Cancer Lists			
Ingredient	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE	US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

MATERIAL SAFETY DATA SHEET

Product Name: Sodium persulphate

CAS No.: 7775-27-1

Version: 0

SODIUM PERSULPHATE(7775-27-1)	No	No	None
-------------------------------	----	----	------

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment :

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment :

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : No data available.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available on bioaccumulation.

Product

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil

Mobility in soil : No data available.

Other adverse effects : No data available.

13. Disposal consideration

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN1505	SODIUM PERSULFATE	5.1	III	No
IMDG	UN1505	SODIUM PERSULFATE	5.1	III	No

MATERIAL SAFETY DATA SHEET**Product Name:** Sodium persulphate**CAS No.:** 7775-27-1**Version:** 0

IATA	UN1505	SODIUM PERSULFATE	5.1	III	No
------	--------	-------------------	-----	-----	----

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**01/08/2014**Version : 0**

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, 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 THIS PRODUCT(S).