



## Section 1 - Chemical Product and Company Identification

**Product Name** Ammonium Persulphate (APS) pure, 98%  
**Product Code** 82381  
**CAS No** 7727-54-0  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7727-54-0	Ammonium persulfate	<=100	231-786-5

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Contact with combustible material may cause fire.

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. May cause dermatitis. May cause sensitization by skin contact.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:** Causes respiratory tract irritation. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause respiratory sensitization.

**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures



**Product Code** 82381

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Provide ventilation. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** CAS# 7727-54-0:  
Belgium - TWA: 0.1 mg/m<sup>3</sup> VLE  
Malaysia: 0.1 mg/m<sup>3</sup> TWA  
Netherlands: 1 mg/m<sup>3</sup> MAC (as S2O8)  
Spain: 0.1 mg/m<sup>3</sup> VLA-ED

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties



**Product Code** 82381

**Physical State:** Crystalline powder  
**Color:** white  
**Specific Gravity/Density:** 1.980 g  
**Molecular Formula:** H<sub>8</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub>  
**Molecular Weight:** 228.20

## Section 10 - Stability and Reactivity

**Chemical Stability:** Moisture sensitive.  
**Conditions to Avoid:** Incompatible materials, combustible materials, heating to decomposition, exposure to moist air or water.

### Incompatibilities with

**Other Materials :** Metals, strong oxidizing agents, aluminum, copper, iron, magnesium, peroxides, sodium peroxide, zinc, silver salts, hydrogen peroxide, alkalies, lead, silver, nickel, combustible materials.

### Hazardous Decomposition

**Products :** Nitrogen oxides (NO<sub>x</sub>) and ammonia (NH<sub>3</sub>), sulfur oxides (SO<sub>x</sub>), including sulfur oxide and sulfur dioxide.

**Hazardous Polymerization :** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 7727-54-0: SE0350000

**LD50/LC50:** RTECS: CAS# 7727-54-0:

Oral, rat: LD50 = 689 mg/kg;

Other: Oral rat LD50 = 495 mg/kg

Oral rat LD50 = 400-800 mg/kg

Skin rat LD50 = 2000 mg/kg

Ames test (bacteria): negative

Eye rabbit: no irritation (OECD 405)

Skin rabbit: no irritation (OECD 404)

Sensibilization guinea pig: positive (OECD 406)

**Carcinogenicity:** Ammonium persulfate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

**Ecotoxicity:** Algae: 33 mg/L; ;

Fish: 0.3 mg/L (NH<sub>4</sub>); ;

Fish: >7000 mg/L (SO<sub>4</sub>); ;

Bacteria: >2500 mg/L (SO<sub>4</sub>); ;

Daphnia: Daphnia: 120 mg/L; 48H; EC50

Fish: Rainbow trout: 76 mg/L; 96H; LC50

Fish: Guppy: 323 mg/L; 96H; LC50

Bacteria: Pseudomonas putida: 36 mg/L; 18H; EC50

**Other:** Do not empty into drains.

## Section 13 - Disposal Considerations



**Product Code** 82381

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Ammonium Persulphate	Ammonium Persulphate	Ammonium Persulphate
<b>Hazard Class:</b>	5.1	5.1	5.1
<b>UN Number:</b>	1444	1444	1444
<b>Packing Group:</b>	III	III	III

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O

Risk Phrases: R 22 Harmful if swallowed. R 36/37/38 Irritating to eyes, respiratory system and skin. R 42/43 May cause sensitization by inhalation and skin contact. R 8 Contact with combustible material may cause fire.

Safety Phrases: S 22 Do not breathe dust. S 24 Avoid contact with skin. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 37 Wear suitable gloves.

WGK (Water Danger/Protection) CAS# 7727-54-0: 1

Canada CAS# 7727-54-0 is listed on Canada's DSL List

### US Federal

TSCA CAS# 7727-54-0 is listed on the TSCA Inventory.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.