

**MATERIAL SAFETY DATA SHEET****Product Name:** Ammonium persulphate**CAS No.:** 7727-54-0**Version:** 0**1. Identification**

**Product Code** : 90119, 90333  
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**2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent
AMMONIUM PERSULPHATE	7727-54-0	99- 100%

**3. Hazards Identification****Hazard classification****Health hazards**

Specific target organ toxicity - single exposure : Category 2

**Environmental hazards**

Acute hazards to the aquatic environment : Category 1

**Unknown toxicity**

Acute hazards to the aquatic environment : 0 %

Chronic hazards to the aquatic environment : 100 %

**Labels elements****Hazard symbol**

**Signal word** : Warning.

**Hazard statement** : May cause damage to organs by ingestion. Very toxic to aquatic life

**Precautionary statement**

**Prevention** : Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

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- Response** : IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Collect spillage.
- Storage** : Store locked up.
- Disposal** : 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.
- Other hazards which do not result in GHS classification** : None.

**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.
- Ingestion** : Rinse mouth thoroughly. Get medical attention if symptoms occur. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist .
- Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur .
- Most important symptoms/effects, acute and delayed** : Irritating to eyes, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed

**5. Fire fighting measures****Suitable (and unsuitable) extinguishing media**

- Suitable extinguishing media** : Use fire-extinguishing media appropriate for surrounding materials
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : During fire, gases hazardous to health may be formed.
- Special protective equipment and precautions for firefighters**
- Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use

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**Special protective equipment for fire-fighters** : water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out .  
: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA .

**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.

**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** : Avoid conditions which create dust. Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash thoroughly after handling.

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

**8. Exposure Controls Personal Protection**

**Control parameters**

**Occupational exposure limits** : None of the components have assigned exposure limits.

**Appropriate engineering controls** : No data available.

**Individual protection measures, such as personal protective equipment**

**General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure

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- limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Eye/face protection** : Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated .
- Hand protection** : Chemical resistant gloves .
- Other** : Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Respiratory protection** : In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.
- Hygiene measures** : Provide eyewash station and safety shower. 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. Avoid contact with eyes, skin, and clothing.

**9. Physical and Chemical Properties**

- Appearance** : White Solid Crystal Powder.
- Odor** : Odorless.
- pH** : 5.5 (0.1 molar aqueous solution) .
- Melting point/freezing point** : 235 °C .
- Initial boiling point and boiling range** : No data available.
- Flash Point** : Not applicable.
- Vapor pressure** : No data available.
- Vapor density** : No data available.
- Relative density** : 1.77 (20 °C) .
- Solubility in water** : Appreciable .
- Solubility (other)** : No data available.
- Formula** :  $H_3N.1/2H_2O_4S$  .
- Molecular Weight** : 132.14 g/mol .

**10. Stability and Reactivity**

- Reactivity** : No dangerous reaction known under conditions of normal use .
- Chemical stability** : Material is stable under normal conditions.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : Excessive heat. Contact with incompatible materials .
- Incompatible materials** : Strong oxidizing agents. Potassium. Nitrates.
- Hazardous decomposition products** : ammonia Nitrogen Oxides Oxides of sulfur.

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**11. Toxicological Information****Information on likely routes of exposure**

- Ingestion** : May cause irritation of the gastrointestinal tract.
- Inhalation** : May cause irritation to the respiratory system.
- Skin contact** : Causes skin irritation.
- Eye contact** : May cause temporary eye irritation.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

- Oral Product** : LD 50 (Rat): 3,000 mg/kg .
- Dermal Product** : LD 50 (Rat): > 2,000 mg/kg
- Inhalation Product** : No data available.
- Repeated dose toxicity Product** : No data available.
- Skin corrosion/irritation Product** : Powder may irritate skin.
- Serious eye damage/eye irritation Product** : May cause temporary eye irritation.
- Respiratory or skin sensitization Product** : Not a skin sensitizer.
- Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.
- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans** : No carcinogenic components identified.
- DIOXANE**
- US. National Toxicology Program (NTP) Report on Carcinogens** : No carcinogenic components identified.
- DIOXANE**
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** : No carcinogenic components identified.
- Germ cell mutagenicity**
- In vitro Product** : No mutagenic components identified.
- In vivo Product** : No mutagenic components identified.
- Reproductive toxicity Product** : No components toxic to reproduction.
- Specific target organ toxicity - single exposure Product** : Central nervous system.
- Specific target organ toxicity - repeated exposure Product** : None known.
- Aspiration hazard Product** : Not classified .
- Other effects** : None known.

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- Fish Product** : LC 50 (Atlantic salmon (*Salmo salar*), 96 h): 101.1 - 149.5 mg/l Mortality  
LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 96 h): 5.2 - 8.2 mg/l Mortality  
LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 96 h): 0.068 mg/l Mortality .
- Aquatic invertebrates Product** : EC 50 (Water flea (*Ceriodaphnia dubia*), 48 h): 52 - 67 mg/l Intoxication  
LC 50 (Water flea (*Daphnia magna*), 48 h): 13 - 15 mg/l Mortality

**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** : There are no data on the degradability of this product.  
**BOD/COD ratio Product** : No data available.
- Bioaccumulative potential**
- Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.
- Partition coefficient n-octanol / water (log Kow) Product** : No data available.
- Mobility in soil** : The product is water soluble and may spread in water systems.
- Other adverse effects** : Very toxic to aquatic life.

**13. Disposal consideration**

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

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## 14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not Regulated		
IMDG			Not Regulated		
IATA			Not Regulated		

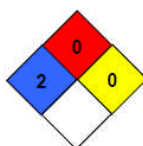
## 15. Regulatory Information

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

### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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