

Material Safety Data Sheet

hazard information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Identification of the Substance/Preparation and Company:

Product name	Product code	EEC number
Ammonium Persulfate, ACS Reagent Grade	GR152-10	231-786-5

Supplier

Hoefler, Inc., 953 Indiana Street, San Francisco, CA 94107
Phone: 800-227-4750

Emergency Contact

Chemtrec: 800-424-9300
Outside USA and Canada: 703-527-3887

Composition/Hazardous Components:

Hazard	CAS No.	%WT	TLV	CHIP R & S Phrases
Ammonium Persulfate	7727-54-0	~100%	0.10 mg/m ³ ACGIH TLV	<i>R:22</i> Harmful if swallowed. <i>R:36/37/38</i> Irritating to eyes, respiratory system and skin. <i>R:42/43</i> May cause sensitization by inhalation and skin contact. <i>R:8</i> Contact with combustible material may cause fire. <i>S:22</i> Do not breathe dust. <i>S:24</i> Avoid contact with skin. <i>S:26</i> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazards Identification

CHIP: Oxidizer and Harmful
HCS: Oxidizer and Corrosive



First-aid Measures

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical advice if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: **DO NOT INDUCE VOMITING.** Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

Fire-fighting Information

FLASH POINT: No data available.

Use media suitable to extinguish the supporting or surrounding fire. **DO NOT USE WATER.** Wear NIOSH (or equivalent) approved self contained breathing apparatus. *For small fires only:* use carbon dioxide, dry powder or foam. Consider material a strong oxidizer. Ammonium Persulfate decomposes with liberation of oxygen, ammonia, fumes of sulfuric acid and ozone at approximately 175°C. May present an explosion hazard if mixed with finely powdered organic matter, metal powder or reducing agents. NFPA Rating: H=2 F=1 R=1.

Accidental Release Measures

Wear suitable protective clothing including lab coat, chemical resistant safety goggles, gloves and NIOSH-approved (or equivalent) air-supply respirator to clean small releases. Collect in a manner that does not create dust and place in a suitable waste container. Use non-sparking tools and equipment. Flush the spill area with water. Avoid contact of the material with skin or eyes. Use adequate ventilation. Do not mix with other waste.

Handling and Storage

Wear suitable protective clothing including lab coat, chemical resistant safety goggles, gloves and NIOSH-approved (or equivalent) air-supply respirator. Product is unstable; avoid heat, moisture and reducing agents. Store away from powdered aluminum, sodium peroxide, acids, alkalis, halides (fluorides, chlorides, bromides), heavy metals and combustible materials. Avoid storage on wooden floors.

Personal Protection

Wear suitable protective clothing including lab coat, chemical resistant safety goggles, gloves and NIOSH-approved (or equivalent) air-supply respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

Physical and Chemical Properties

Appearance: Off-white crystalline powder

Melting point 120°C (248°F)

Boiling Point: No data available

Specific gravity: 1.98

Vapor Pressure: No data available

Vapor Density (air = 1): 7.9

Solubility in water: Soluble

Percent Volatile: 0

Chemical Formula: $(\text{NH}_4)_2\text{S}_2\text{O}_8$

Evaporation Rate: No data available

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.



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Stability and Reactivity

Stable under ordinary conditions of use and storage. Stability decreases in the presence of moisture. Decomposed by moisture to form oxygen and ozone. Burning may produce nitrogen oxides, sulfur oxides and sulfuric acid. Incompatibilities include reducing agents, organic material, sodium peroxide, water, acids and powdered metals especially aluminum. Avoid heat, moisture, combustible materials and incompatibilities. Hazardous polymerization will not occur.

Toxicological Information

Effects of overexposure:

EYES: May cause irritation and/or corneal damage.

SKIN: May cause irritation, burns, ulcers, dermatitis or tissue damage.

INHALATION: Inhalation of dust, vapors or fumes may cause irritation or burns to the respiratory tract. May cause lung edema. Any exposure may cause an allergic reaction. Asthma-like symptoms and life-threatening shock may result.

INGESTION: Chronic ingestion or excessive dosage may cause irritation or burns to the mouth, throat, esophagus and gastrointestinal tract. If swallowed, can also produce nausea. Chronic effects include asthmatic bronchitis, dermatitis. Material is a strong oxidizer. Handle with care.

TARGET ORGAN(S): Eyes, Skin and Mucous Membranes.

Additional Information:

Toxicity data listed in RTECS under SE0350000.

Oral Rat LD50 = 689 gm/kg (1986). Inhalation Rat LC50 = 3800 $\mu\text{g}/\text{m}^3/23\text{H}$. Details of toxic effects not reported other than lethal dose value.

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ACGIH = American Conference of Governmental Industrial Hygienists.

Ecological Information

No information available.

Disposal Considerations

Dispose of material in accordance with applicable local, state, and federal regulations. Do not mix with other waste. EPA Hazardous Waste Number: D001 (Ignitable Waste).

Transportation Information

US DOT/IATA: Proper shipping name: Ammonium Persulfate, Hazard class 5.1, UN Number: UN1444

Packing Group: PGIII, Hazard label: Oxidizer.

Regulatory Information

RCRA: No applicable information.

EPA Hazardous Waste Number: D001 (Ignitable Waste)

OSHA/PEL: Not established

SARA 302: This material does not have an RQ or TPQ.

SARA 313: This material is not reportable under 313.

EPA TSCA Section 8(b): Chemical Inventory.

Exposure Limits: ACGIH: TLV-TWA 0.10 mg/m^3 .

California Proposition 65: No applicable information.

