

# AMPERSUL

## MATERIAL SAFETY DATA SHEET

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### SECTION I - PRODUCT IDENTIFICATION

**PRODUCT NAME:** AMPERSUL  
**CHEMICAL NAME:** Ammonium Persulfate/Diammonium Peroxydisulfate (NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
**PRODUCT CLASS:** Oxidizer  
**CAS NO.:** 7727-54-0

### SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Identity</u>	<u>CAS</u>	<u>Common Name</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ammonium Peroxydisulfate	7727-54-0	Ammonium Persulfate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**Danger! Strong oxidizer, contact with other material may cause fire. Harmful if swallowed.**  
**Causes burns.**

**Boiling Point (@ATM):** Not Applicable  
**Specific Gravity:(H<sub>2</sub>O = 1):** 1.9  
**Vapor Pressure: (mm Hg.):** None  
**Melting Point:** Decomposes  
**Vapor Density: (air = 1):** None  
**Evaporation Rate:** Not Applicable  
**Water Solubility:** Soluble  
**Appearance and Odor:** White, granular, dry material

### SECTION IV - FIRE & EXPLOSION HAZARD DATA

**Flash Point (°F)(Method Used):** >200°F (Closed Cup)  
**Flammable Limits:** None known  
Lower: Not Applicable  
Upper: Not Applicable  
**Extinguishing Media:** As for surrounding materials, but do not use water  
**Unusual Fire and Explosion Hazards:** Vapors and fumes are extremely toxic. See "Decomposition Products" Sec. IV. Firemen must wear self-contained breathing apparatus. CONFINEMENT of a fire involving dry products will not limit oxygen availability and creates an explosive situation. Evacuate the area.  
**Special Fire Fighting Procedures:** Consider as a strong oxidizing material with acidic mist also being present.

## **SECTION V - REACTIVITY DATA**

**Stability:** Decomposes at 120°C to form oxygen and sulfur oxides.

**Hazardous Decomposition or By-products:** Ammonia, oxygen, which supports combustion, fumes of sulfuric acid. mist, and oxides of sulfur.

**Conditions to Avoid:** Contact with combustibles and moisture.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Acids, alkalis, halides (fluorides, chlorides, bromides), combustible materials, heavy metals. Reducing agents, organic material and water.

## **SECTION VI - HEALTH HAZARD DATA**

### **HEALTH HAZARDS (ACUTE & CHRONIC):**

**Inhalation:** Remove victim to fresh air. If breathing has stopped, start artificial respiration. Get medical attention.

**Skin Contact:** Wash thoroughly with water. Remove and clean contaminated clothing before reuse.

**Eye Contact:** Wash thoroughly with water for at least 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface. Get medical attention.

**Ingestion:** Drink water, do not induce vomiting. Get medical attention promptly.

### **CARCINOGENICITY:**

Potential chronic effects not assessed

NTP? No

IARC Monographs? No

OSHA Regulated? No

**SIGNS & SYMPTOMS OF EXPOSURE:** Irritation, pain or itching, coughing. Exposure to large amounts can cause burns to exposed tissue.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Preexisting skin, eye or respiratory problems may be aggravated and may make individuals more susceptible.

**EMERGENCY & FIRST AID PROCEDURES:** Remove from exposure; seek medical attention. If affected, flush eyes and skin for 15 minutes with large quantities of water and remove contaminated clothing. If swallowed, do not induce vomiting. Give lots of water or milk and get immediate medical attention.

## **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Shovel or sweep into an approved DOT container, then dilute with large quantity of water and dispose of according to the methods outlined below for waste disposal. Clean-up personnel may require protective clothing and respiratory protection.

**WASTE DISPOSAL METHOD:** For small amounts an acceptable method of disposal is to dissolve in water and dispose via a treatment system in accordance with all local, state and federal environmental laws, rules, regulations, standards and requirements. Because acceptable methods of disposal may vary by location, and because regulatory requirements may change, the appropriate regulatory agencies should be contacted prior to disposal. If disposed of as shipped this material is a RCRA ignitable waste having a hazardous waste I.D. No., D001 (40 CFR 261.21).

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep from contact with clothing and combustible materials. Keep away from heat. Keep away from sources of ignition. Store tightly closed and away from moisture.

**OTHER PRECAUTIONS:** Wash with soap and water before eating, drinking or using toilet facilities. Safety shower, eye bath and washing facilities should be available.

## **SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Work in well ventilated area. Where TLV dust is exceeded, use NIOSH certified respiratory protection.

**VENTILATION:** General ventilation in routine use. Local exhaust as necessary. Control dust at or below proposed PEL/TLV levels.

**PROTECTIVE GLOVES:** Neoprene gloves.

**EYE PROTECTION:** Chemical goggles or face mask.

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing such as aprons to prevent skin contact.

**WORK/HYGIENIC PRACTICES:** Maintain good housekeeping/GMP. Follow practices sufficient to avoid inhalation of and skin and eye contact with aerosols.

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