



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

POTASSIUM PERSULFATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Potassium Peroxydisulfate

CAS #: 7727-21-1

DOT Hazard Class: UN 1492, Class 5.1, PG III, Oxidizer

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Potassium Persulfate 99% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White odorless crystals. It is an oxidizer and will support combustion. Dust can irritate the eyes, skin and respiratory systems.

POTENTIAL HEALTH EFFECTS:

Eyes: Can cause irritation

Skin: Irritation can occur and prolonged use may cause dermatitis.

Inhalation: May cause irritation to respiratory tract with a chance of asthma developing with sensitive people.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

SECTION 4 - FIRST AID MEASURES

Eyes: Wash immediately with water for at least 15 minutes.

Skin: Remove contaminated clothing and wash off skin with soap and water.

Inhalation: Remove to the fresh air.

Ingestion: Wash out mouth with water and dilute with several glasses of water.

With All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible

Flammable Limits: Not Applicable

Extinguishing Media: Deluge with water.

Special Fire Fighting Procedures: Do not use carbon dioxide or other gas filled fire extinguishers; they will have no effect on decomposing persulfates. Wear full protective clothing and self-contained breathing apparatus.

Unusual Fire Explosion Hazard: Decomposes when heated with liberation of oxygen which may intensify fire in combustible surroundings.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a DOT approved disposal container, then dilute with water. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from sources of heat and other incompatible materials.

Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area or below proposed TLV of 5 mg/m³ for 8 hours.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): 2.48

Bulk Density: Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Decomposes at ~ 100°C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: 5.9% @ 25°C

pH: 1% solution 6-8

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes of sulfuric acid mist, oxygen which supports combustion and oxides of sulfur and nitrogen.

KEEP AWAY FROM: Heat, moisture and reducing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

An acceptable method of disposal is to dissolve in water and dispose via treatment system in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:.....Potassium Persulfate
TECHNICAL SHIPPING NAME:.....Potassium Persulfate
D.O.T. HAZARD CLASS:.....UN 1492, Class 5.1, PG III, Oxidizer

SECTION 15 - REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT):
This product is listed on the TSCA Inventory.

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category:
(use)Not Considered a Hazard Fire Hazard Immediate (acute) Health Hazard.

SECTION 16 - OTHER INFORMATION

NFPA Hazard Information

Health	1
Flammability	0
Reactivity	1
Special Hazard	0

Reason for Issue Changed Date

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