

Material Safety Data Sheet

POTASSIUM PERSULFATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ACETO CORPORATION

One Hollow Lane
Lake Success, NY 11042-1215
Phone: (516) 627-6000 Fax: (516) 627-6093

DATE PREPARED: JULY 1995
REVISION DATE: MARCH 2002
REVISED BY: SIMONE YEARWOOD
CHEMTREC: 800-424-9300
PRODUCT NUMBER: 31438

PRODUCT NAME: POTASSIUM PERSULFATE
SYNONYMS: POTASSIUM PEROXYDISULFATE
FORMULA: $K_2O_8S_2$
CAS NUMBER: 7727-21-1

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	ACGIH (TLV)	CAS NUMBER
Potassium Persulfate	TWA - 0.1 mg/m ³	7727-21-1

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

..... White powder.
..... Irritant.
..... Harmful.
..... Oxidizer.
..... Possible sensitizer.

PHYSICAL HAZARDS: Contact with combustible material may cause fire.

POTENTIAL HEALTH EFFECTS:

..... **Inhalation:** May be harmful by inhalation. Material is irritating to the mucous membranes and upper respiratory tract.
..... **Eye Contact:** Material causes eye irritation.
..... **Skin Contact:** May be harmful by skin absorption. Material causes skin irritation.
..... **Ingestion:** Harmful by ingestion.

Overview: Harmful by ingestion. May be harmful by inhalation or skin absorption. Material is irritating to the eyes, skin, mucous membranes and upper respiratory tract. Irritant. Oxidizer. Possible sensitizer. May cause allergic respiratory and skin reactions.

SECTION 4 - FIRST AID MEASURES

Material Safety Data Sheet

POTASSIUM PERSULFATE

INHALATION: Remove to fresh air. If breathing becomes difficult, call a physician.

EYES CONTACT: Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

SKIN CONTACT: Immediately wash skin with soap and copious amounts of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Discard contaminated shoes. Call a physician.

INGESTION: Wash mouth out with water and call a physician. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA: Water Spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL FIRE FIGHTING PROCEDURES: If excessive smoke or fumes are encountered, wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE/EXPLOSION HAZARDS: Container explosion may occur under fire conditions. Emits toxic fumes of potassium oxides and sulfur oxides under fire conditions. Contact with other material may cause fire. May accelerate combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS:

- Evacuate area.
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

Safety shower and eye bath. Use only in a well ventilated area. Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Irritant. Harmful by ingestion. Possible sensitizer. Oxidizer. Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Keep away from combustible materials, heat, sparks, and open flame. Keep containers tightly closed. Store in a cool dry place.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

Material Safety Data Sheet

POTASSIUM PERSULFATE

RESPIRATORY PROTECTION: NIOSH/MSHA-approved respirator.

PROTECTIVE CLOTHING: Compatible chemical-resistant gloves, chemical safety goggles and other protective clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White powder.

BOILING POINT: No information.

MELTING POINT: 100°C

VAPOR PRESSURE: No information.

VAPOR DENSITY (AIR=1): 9.3 g/l

SPECIFIC GRAVITY: 2.477

SOLUBILITY IN WATER: No information.

REACTIVITY IN WATER: No information.

FLASHPOINT: No information.

FLAMMABLE LIMITS: LEL N/A UEL N/A

AUTOIGNITION TEMPERATURE: No information.

SECTION 10 - STABILITY AND REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY: Organic materials, finely powdered metals. Protect from moisture. Keep away from heat, sparks and open flame. Contact with other material may cause fire.

HAZARDOUS DECOMPOSITION: Toxic fumes of Potassium oxides, and Sulfur oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY: LC₅₀ (inh, rat): No information.
LD₅₀ (oral, rat): 802 mg/kg

Material Safety Data Sheet

POTASSIUM PERSULFATE

POTENTIAL HEALTH EFFECTS:

..... **Inhalation:** May be harmful by inhalation. Material is irritating to the mucous membranes and upper respiratory tract.

..... **Eye Contact:** Material causes eye irritation.

..... **Skin Contact:** May be harmful by skin absorption. Material causes skin irritation.

..... **Ingestion:** May be harmful by ingestion.

SECTION 12 - ECOLOGICAL INFORMATION

..... **Biodegradability:** No information.

..... **Aquatic Toxicity:** No information.

SECTION 13 - DISPOSAL CONSIDERATIONS

Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.

..... Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14 - TRANSPORTATION DATA

PROPER SHIPPING NAME:	Potassium Persulfate
HAZARD CLASS AND LABEL:	Class 5.1 "OXIDIZER" label required.
UN NUMBER:	UN1492
PACKAGING:	III
SPECIAL PROVISIONS:	A1, A29, IB8, IP3

SECTION 15 - REGULATORY INFORMATION

9D=	ACGIH Threshold Limit Value (TLV) Chemicals.
13A=	DOT Hazardous Materials.
ACGIH:	TWA is 0.1 mg/m3.
MA1=	Massachusetts Substance List.

Material Safety Data Sheet
POTASSIUM PERSULFATE

NJ1= New Jersey Right To Know Hazardous Substance List.
PA1= Pennsylvania Hazardous Substance List.
TSCA= This chemical is listed on the TSCA Inventory
EINECS= 231-781-8

SECTION 16 - OTHER INFORMATION

NOTE: We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Aceto Corporation, it is the user's obligation to determine the conditions of safe use of the product.