

DATE: 08/18/97
INDEXT: D72271636

ACCT: 888235001
CAT NO: P281500

PAGE: 1
PO NBR: UNH-81586

**** MATERIAL SAFETY DATA SHEET ****

Potassium Persulfate
19540

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Potassium Persulfate

Catalog Numbers:
BP180-100, BP180-100, BP180100, P281 500, P281-500, P281500, P282 100,
P282 500, P282-100, P282-500, P282100, P282500, S80145-1, S801451

Synonyms:
Anthion; Peroxydisulfuric acid, dipotassium salt; Potassium
peroxydisulfate; Potassium persulfate
Company Identification: Fisher Scientific

1 Reagent Lane
Fairlawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#
7727-21-1	Potassium peroxydisulfate	100	231-781-8

Hazard Symbols: XN O

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: White or colorless crystalline powder.
Danger! Strong oxidizer. Contact with other material may cause a
fire. May cause allergic respiratory reaction. May cause allergic
skin reaction. May be harmful if swallowed. Causes eye and skin
irritation. Causes digestive and respiratory tract irritation.
Target Organs: None.

Potential Health Effects

Eye:
May cause severe eye irritation.
Skin:
May cause skin irritation. May cause skin sensitization, an allergic
reaction, which becomes evident upon re-exposure to this material.
Ingestion:
May cause severe digestive tract irritation with abdominal pain,
nausea, vomiting and diarrhea.
Inhalation:
Dust is irritating to the respiratory tract. May cause asthmatic
attacks due to allergic sensitization of the respiratory tract. May
cause pulmonary edema and severe respiratory disturbances.
Chronic:
Prolonged or repeated skin contact may cause sensitization
dermatitis and possible destruction and/or ulceration. Repeated
exposure may cause allergic respiratory reaction (asthma).

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:
Flush eyes with plenty of water for at least 15 minutes,
occasionally lifting the upper and lower lids. Get medical aid
immediately.
Skin:
Get medical aid immediately. Flush skin with plenty of soap and
water for at least 15 minutes while removing contaminated clothing
and shoes.
Ingestion:
If victim is conscious and alert, give 2-4 cupsful of milk or water.
Never give anything by mouth to an unconscious person. Get medical
aid immediately.
Inhalation:
Get medical aid immediately. Remove from exposure to fresh air
immediately. If not breathing, give artificial respiration. If
breathing is difficult, give oxygen.
Notes to Physician:
Treat symptomatically and supportively.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

As in any fire, wear a self-contained breathing apparatus in
pressure-demand, MSHA/NIOSH (approved or equivalent), and full
protective gear. Strong oxidizer. Contact with combustible materials
may cause a fire.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or

DATE: 08/18/97
INDEXT: D72271636

ACCT: 888235001
CAT NO: P281500

PAGE: 2
PO NBR: UNH-81586

alcohol-resistant foam.
Autoignition Temperature: Not available.
Flash Point: Not available.
NFPA Rating: Not published.
Explosion Limits, Lower: Not available.
Upper: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated
in Section 8.

Spills/Leaks:
Sweep up, then place into a suitable container for disposal.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Wash thoroughly after handling. Remove contaminated clothing and
wash before reuse. Use only in a well ventilated area. Do not get on
skin or in eyes. Do not ingest or inhale.

Storage:
Store in a cool, dry place. Keep containers tightly closed.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:
Use adequate ventilation to keep airborne concentrations low.

Chemical Name	Exposure Limits		
	ACGIH	NIOSH	OSHA - Final PELs
Potassium peroxydisulfate	none listed	none listed	none listed

OSHA Vacated PELs:

Potassium peroxydisulfate:
No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical
safety goggles as described by OSHA's eye and face
protection regulations in 29 CFR 1910.133.
Skin:
Wear appropriate protective gloves to prevent skin
exposure.
Clothing:
Wear appropriate protective clothing to prevent skin
exposure.
Respirators:
Follow the OSHA respirator regulations found in 29CFR
1910.134. Always use a NIOSH-approved respirator when
necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Appearance: White or colorless crystalline powder.
Odor: Odorless.
pH: Acidic in water (7)
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not applicable.
Boiling Point: Not available.
Freezing/Melting Point: Decomposes
Decomposition Temperature: 100 C
Solubility: Soluble in water.
Specific Gravity/Density: 2.4770
Molecular Formula: K2S2O8
Molecular Weight: 270.3118

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials.
Incompatibilities with Other Materials:
Strong reducing agents, finely powdered metals, moisture, strong
bases, alcohols.
Hazardous Decomposition Products:
Oxygen, oxides of potassium, sulfur oxides (SOx), including sulfur
oxide and sulfur dioxide.
Hazardous Polymerization: Will not occur.

DATE: 08/18/97 ACCT: 888235001 PAGE: 3
INDEX: D72271636 CAT NO: P281500 PO NBR: UNH-81586

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 7727-21-1: SE0400000
LD50/LC50:
CAS# 7727-21-1: Oral, rat: LD50 = 802 mg/kg.
Carcinogenicity:
Potassium peroxydisulfate -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology:
No data available.
Teratogenicity:
No data available.
Reproductive Effects:
No data available.
Neurotoxicity:
No data available.
Mutagenicity:
No data available.
Other Studies:
Tests on humans have shown Potassium persulfate to be a skin
and respiratory tract sensitizer, causing dermatitis,
rashes, and asthma.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:
Not available.
Environmental Fate:
Not available.
Physical/Chemical:
Not available.
Other:
Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: Not listed.
RCRA D-Series Chronic Toxicity Reference Levels: Not listed.
RCRA F-Series: Not listed.
RCRA P-Series: Not listed.
RCRA U-Series: Not listed.
Not listed as a material banned from land disposal according to RCRA.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT
Shipping Name: POTASSIUM PERSULFATE
Hazard Class: 5.1
UN Number: UN1492
Packing Group: III
IMO
No information available.
IATA
No information available.
RID/ADR
No information available.
Canadian TDG
Shipping Name: POTASSIUM PERSULFATE
Hazard Class: 5.1
UN Number: UN1492

**** SECTION 15 - REGULATORY INFORMATION ****

FEDERAL
TSCA
CAS# 7727-21-1 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
Section 302 (RQ)
None of the chemicals in this material have an RQ.
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
SARA Codes
CAS # 7727-21-1: acute, flammable.
Section 313
No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

DATE: 08/18/97 ACCT: 888235001 PAGE: 4
INDEX: D72271636 CAT NO: P281500 PO NBR: UNH-81586

Clean Water Act:
None of the chemicals in this product are listed as Hazardous
Substances under the CWA.
None of the chemicals in this product are listed as Priority
Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants
under the CWA.
OSHA:
None of the chemicals in this product are considered highly hazardous
by OSHA.

STATE
Potassium peroxydisulfate can be found on the following state right
to know lists: New Jersey, Florida, Pennsylvania, Massachusetts.
California No Significant Risk Level:
None of the chemicals in this product are listed.

INTERNATIONAL
European Labeling in Accordance with EC Directives
Hazard Symbols: XN O
Risk Phrases:
Safety Phrases:

S 15 Keep away from heat.
S 17 Keep away from combustible material.
S 22 Do not inhale dust.
S 24/25 Avoid contact with skin and eyes.
S 27 Take off immediately all contaminated clothing.

Canada

CAS# 7727-21-1 is listed on Canada's DSL/NDSL List.
CAS# 7727-21-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits:

CAS# 7727-21-1: OEL-DENMARK:TWA 2 mg/m3. OEL-UNITED KINGDOM:TWA 1 mg
/m3. OEL-UNITED KINGDOM:TWA 1 mg/m3 JANUARY 1993

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

No additional information available.
MSDS Creation Date: 3/22/1995 Revision #2 Date: 3/04/1996

The information above is believed to be accurate and represents the best
information currently available to us. However, we make no warranty of
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