

LAB

EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....: Preparation Date.: 03/01/91
 Date MSDS Printed.: Feb 27, 1996

EM SCIENCE
 A Division of EM Industries
 P.O. Box 70
 480 Democrat Rd.
 Gibbstown, N.J. 08027

Information Phone Number.: 609-423-6300
 Hours: Mon. to Fri. 8:30-5
 Chemtrec Emergency Number: 800-424-9300
 Hours: 24 hrs a day

Catalog Number(s):
 PX1581 5107

Product Name.....:
 Potassium Pyrosulfate

Synonyms.....:
 Potassium Disulfate

Chemical Family..:
 Inorganic Salt

Formula.....:
 $K_2S_2O_7$

Molecular Weight.:
 254.33

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
Potassium Pyrosulfate	7790-62-7	100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.
 MAY CAUSE BURNS.

Appearance.....:
 White powder

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

- Irritating on contact with skin, eyes or mucous membranes
- May cause burns on contact
- Aqueous solutions are strongly acid

Medical Cond. Aggravated by Exposure:

Data not available.

Routes of Entry.....:

Inhalation, ingestion or skin contact.

Carcinogenicity.....:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Eyes: Immediately flush thoroughly with water

Skin: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

5. FIRE FIGHTING MEASURES

Flash Point (F).....: Noncombustible

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media.....:

Use any suitable for adjacent material

Fire Fighting Procedures.:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards.:

Thermal decomposition produces toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health : 1
Flammability : 0
Reactivity : 0
Special Hazards :

Revision History:

01/09/86 01/31/87 10/27/87

| = Revised Section

N/A = Not Available

N/E = None Established

The statements contained herein are offered for informational purposes only and are based upon technical data that EM SCIENCE believes to be accurate. It is intended for use only by persons having the necessary technical skill and at their own descretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.

Toxicity Data:

N/A

Toxicological Findings:

None

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name...:

non-regulated

DOT ID Number.....:

none

14. REGULATORY INFORMATION

TSCA Statement

The CAS number of this product is listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
-----------	----------------------	--------------------------	-----------------------

Potassium Pyrosulfate

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
-----------	--------------------	-------------	----------------------------------

Potassium Pyrosulfate

ACGIH - TLV:

Component	PPM	TWA MG/M ³	STEL PPM	MG/M ³	PPM	CL MG/M ³	Skin
-----------	-----	--------------------------	-------------	-------------------	-----	-------------------------	------

Potassium Pyrosulfate

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) ..	Decomposes
Melting Point (C)	325C
Specific Gravity (H2O = 1) ..	2.25
Vapor Pressure (mm Hg)	N/A
Percent Volatile by vol (%) :	None
Vapor Density (Air = 1)	N/A
Evaporation Rate (BuAc = 1) :	N/A
Solubility in Water (%)	Soluble
Appearance	
White powder	

10. STABILITY AND REACTIVITY

Stability

Yes

Hazardous Polymerization:
Data not available.

Hazardous Decomposition ..
SO_x, K₂O

Conditions To Avoid

-Extreme heat

Materials To Avoid

- () Water
- () Acids
- () Bases
- () Corrosives
- () Oxidizers
- () Other :

11. TOXICOLOGICAL INFORMATION

- Wear suitable protective equipment listed under Exposure / Personal Protection.
- Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.
- Contain the release and eliminate its source, if this can be done without risk.
- Take up and containerize for proper disposal as described under Disposal.
- Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

7. HANDLING AND STORAGE

Handling & Storage:

- Keep container closed.
- Store at controlled room temperature.
- Do not breathe dust.
- Do not get in eyes, on skin or on clothing

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection
 Material should be handled or transferred in an approved fume hood or with adequate ventilation.
 Protective gloves should be worn to prevent skin contact which can cause irritation or allergic reaction
 Safety glasses with side shields should be worn at all times.

Work / Hygenic Practices:

- Wash thoroughly after handling.
- Do not take internally.
- Eye wash and safety equipment should be readily available.

EXPOSURE GUIDELINES

OSHA - PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M ³	PPM	MG/M ³	PPM	MG/M ³	

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

- Irritating on contact with skin, eyes or mucous membranes
- May cause burns on contact
- Aqueous solutions are strongly acid

Medical Cond. Aggravated by Exposure:

Data not available.

Routes of Entry.....:

Inhalation, ingestion or skin contact.

Carcinogenicity.....:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Eyes: Immediately flush thoroughly with water

Skin: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

5. FIRE FIGHTING MEASURES

Flash Point (F).....: Noncombustible

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media.....:

Use any suitable for adjacent material

Fire Fighting Procedures.:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards.:

Thermal decomposition produces toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.