

MATERIAL SAFETY DATA SHEET

EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....: Preparation Date.: 4/17/00
 EM SCIENCE
 A Division of EM Industries Information Phone Number.: 856-423-6300
 P.O. Box 70 Hours: Mon. to Fri. 8:30-5
 480 Democrat Road Chemtrec Emergency Number: 800-424-9300
 Gibbstown, N.J. 08027 Hours: 24 hrs a day

Catalog Number(s):
 PX1505 PX1507 PX1508 PX1510 5044 PX1503 5043 PX1512 0050405B 00504064
 0050406C

Product Name:
 Potassium Iodide

Synonyms:
 None

Chemical Family:
 Inorganic Salt

Formula:
 KI

Molecular Weight.: 166.00

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
Potassium Iodide	7681-11-0	100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

MAY BE HARMFUL IF SWALLOWED.

MAY BE IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.

Appearance:

Colorless, odorless crystals or granules

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

May be harmful if swallowed.

May be irritating on contact with eyes or prolonged contact with skin.

Medical Cond. Aggravated by Exposure:

Data not available.

Routes of Entry:

Inhalation, ingestion

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.

Skin: Wash thoroughly with soap and water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

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

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

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 highly toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.

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 tightly 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 (Neoprene, PVC or equivalent) should be worn to prevent skin contact.

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/M3	PPM	MG/M3	PPM	MG/M3	
Potassium Iodide							

ACGIH - TLV

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Potassium Iodide							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) : 1420C

Melting Point (C) : 723C

Specific Gravity (H2O = 1) : 3.12

Vapor Pressure (mm Hg) . . . : 1 745C

Percent Volatile by vol (%) : N/A

Vapor Density (Air = 1) . . : N/A

Evaporation Rate (BuAc = 1) : N/A

Solubility in Water (%) . . : 60%

Appearance :
 Colorless, odorless crystals or granules

10. STABILITY AND REACTIVITY

Stability: Yes

Hazardous Polymerization:

Does not occur

Hazardous Decomposition:

Iodine, Iodine compounds

Conditions to Avoid:

None indicated

Materials To Avoid:

() Water

() Acids

() Bases

() Corrosives

(X) Oxidizers

(X) Other: Bromine Trifluoride, Chlorine Trifluoride, Fluorine perchlorate

11. TOXICOLOGICAL INFORMATION

Toxicity Data

orl-mus LDLo: 1862 mg/kg ivn-rat LDLo: 167 mg/kg

Toxicological Findings:

Test on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

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 Iodide			

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
Potassium Iodide			

If there is no information listed on the regulatory information chart, this indicate

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health : 2

Flammability : 0

Reactivity : 0

Special Hazards :

Revision History: 9/1/83 10/1/84 12/6/86 6/19/87 10/27/87 9/26/88
5/22/89 3/1/91 12/9/92 2/4/97

| = 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 discretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE.