



Curtin Matheson Scientific, Inc.
1225 N MICHAEL DRIVE
WOOD DALE, IL 60191-1019

MATERIAL SAFETY DATA SHEET

MAIL TO: SCHOOLCRAFT COLLEGE

HPS MEMBER
18600 HAGGERTY RD.

LIVONIA, MI 48152-2696

SECTION 1 - NAME AND PRODUCT

MANUFACTURER NAME AND ADDRESS

EM SCIENCE
A DIV OF EM INDUSTRIES
P.O. BOX 70

GIBBSTOWN NJ 08027

EMERGENCY PHONE 1-800-424-9300(CHEMTREC)

CHEMICAL NUMBER: MPX1550-1

ITEM NUMBER: 0406915

VNDR CATLG NBR:

ENTRY DATE: 02-24-90

CHANGE DATE: 06-02-95

PO NUMBER: 82676

COMMON NAME (ON LABEL)

POTASSIUM PERMANGANATE

CHEMICAL FAMILY

INORGANIC - OXIDIZING AGENT

TRADE NAME & SYNONYMS

PERMANGANIC ACID POTASSIUM SALT
POTASSIUM PERMANGANATE

CHEMICAL FORMULA

KMNO4

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
POTASSIUM PERMANGANATE	7722-64-7	100.00	.000 SEC.5	.000 SEC.5

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).

TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-87.

OTHER INGREDIENT INFORMATION

-NONE OTHER THAN SPECIFIED PRODUCT.

SECTION 3 - PHYSICAL DATA

BOILING POINT N/A	VOLATILE BY VOLUME (%) N/A	VAPOR PRESSURE N/A 20C
MELTING POINT 240C DE	VAPOR DENSITY N/A	SOLUBILITY IN WATER 6.5
EVAPORATION RATE (N/A	= 1)	SPECIFIC GRAVITY 2.7
APPEARANCE AND ODOR PURPLE OR BRONZE-LIKE		
OTHER PHYSICAL DATA MOLECULAR WEIGHT.: 158.04		

SECTION 5 - HEALTH HAZARD DATA (CONTINUED)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
DATA NOT AVAILABLE

CARCINOGENICITYNTP ☐ Yes ☒ NoIARC ☐ Yes ☒ NoOSHA ☐ Yes ☒ No

THE MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS CANCER CAUSING AGENT.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES SKIN: WASH WITH SOAP AND WATER THOROUGHLY INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

THRESHOLD LIMITS / TOXICITY DATA

OSHA - PEL: NONE ESTABLISHED (TWA,STEL,CL) ACGIH - TLV: NONE
ESTABLISHED (TWA,STEL,CL) TOXICITY: ORL-RAT LD50: 1090 MG/KG
ORL-HMN LDLO: 143 MG/KG
TOXICOLOGICAL FINDINGS: TEST ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC AND REPRODUCTIVE EFFECTS. CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCE (RTECS)

SECTION 6 - REACTIVITY DATA

STABILITY Unstable ☐ Stable ☒

CONDITIONS TO AVOID

CONTACT WITH COMBUSTIBLE MATTER. EXPLOSIVE IN
CONTACT WITH H2SO4 OR H2O2

INCOMPATIBILITY (MATERIALS TO AVOID)

() WATER (X) ACIDS () BASES () CORROSIVES () OXIDIZERS (X) OTHER:
REDUCING AGENTS, CERTAIN METALS, P,C,S,N2S4, ORGANICS

SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
K₂O, MNOX

HAZARDOUS POLYMERIZATION May Occur ☐ Will Not Occur ☒
CONDITIONS TO AVOID
DOES NOT OCCUR

SECTION 7 - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
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.

WASTE DISPOSAL METHOD
EPA WASTE NUMBERS: D001 SPECIFIED
TECHNOLOGY - CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES. ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

LOCAL VENTILATION

SEE RESPIRATORY PROTECTION

MECHANICAL VENTILATION

SEE RESPIRATORY PROTECTION

SPECIAL VENTILATION

SEE RESPIRATORY PROTECTION

SECTION 8 - SPECIAL PROTECTION INFORMATION (CONTINUED)**OTHER VENTILATION**

SEE SECTION 8 - RESPIRATORY PROTECTION

PROTECTIVE GLOVES

NEOPRENE, PVC OR EQUIVALENT SHOULD BE WORN TO PREVENT SKIN CONTACT

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

SEE SECTION 8 - RESPIRATORY PROTECTION.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

KEEP CONTAINER TIGHTLY CLOSED STORE IN A COOL,

WELL-VENTILATED AREA AWAY FROM ORGANIC, COMBUSTIBLE AND REDUCING MATERIALS

DO NOT BREATHE DUST

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING

DO NOT TAKE INTERNALLY RETAINED RESIDUE

MAY MAKE EMPTY CONTAINERS HAZARDOUS; USE CAUTION!. WORK/HYGIENIC PRACTICES: WASH

THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

SECTION 10 - OTHER INFORMATION**MISCELLANEOUS INFO.**

DOT SHIPPING NAME: POTASSIUM PERMANGANATE DOT NUMBER: N/G

TSCA INVENTORY: THE CAS NUMBER OF THIS
PRODUCT IS LISTED ON THE TSCA INVENTORY.

COMMENTS: NONE

NFPA HAZARD RATINGS: HEALTH: 1; FLAMMABILITY: 0; REACTIVITY: 0. N/A = NOT AVAILABLE

N/E = NONE ESTABLISHED

N/G = NONE GIVEN

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT**

NONCOMBUSTIBLE

LOWER EXPLOSIVE LIMIT

N/A

UPPER EXPLOSIVE LIMIT

N/A

EXTINGUISHING MEDIA

WATER SPRAY

UNUSUAL FIRE AND EXPLOSION HAZARDS

STRONG OXIDIZER. THERMAL DECOMPOSITION PRODUCES TOXIC FUMES.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION 5 - HEALTH HAZARD DATA**HEALTH HAZARDS (ACUTE & CHRONIC)**

SEE SIGNS AND SYMPTOMS OF EXPOSURE.

PRIMARY ROUTES OF EXPOSURE

INHALATION, INGESTION OR SKIN CONTACT

SIGNS AND SYMPTOMS OF EXPOSURE

TOXIC BY INGESTION AND INHALATION. CAUSES IRRITATION OF NASAL AND RESPIRATORY PASSAGES, GASTROINTESTINAL TRACT, NAUSEA, DIARRHEA, POSSIBLE LUNG AND STOMACH INJURY. IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS MEMBRANCE.