



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: MPX1395-1

ITEM NUMBER: 0406819

VNDR CATLG NBR:

ENTRY DATE: 02-24-90

CHANGE DATE: 08-10-95

PO NUMBER: 82676

COMMON NAME (ON LABEL)

POTASSIUM CHLORATE

CHEMICAL FAMILY

INORGANIC SALT

TRADE NAME & SYNONYMS

CHLORATE OF POTASH
POTASSIUM CHLORATE

CHEMICAL FORMULA

KCLO₃

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
POTASSIUM CHLORATE	3811-04-9	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	VOLATILE BY VOLUME (%)	VAPOR PRESSURE
400 DECOMPOSES	NONE	NONE 20 C
MELTING POINT	VAPOR DENSITY	SOLUBILITY IN WATER
368 C	N/A	6%
EVAPORATION RATE (BUAC = 1)	SPECIFIC GRAVITY	
N/A	2.32	

APPEARANCE AND ODOR

WHITE CRYSTALS

OTHER PHYSICAL DATA

MOLECULAR WEIGHT.: 122.55

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

NONE

LOWER EXPLOSIVE LIMIT

N/A

UPPER EXPLOSIVE LIMIT

N/A

EXTINGUISHING MEDIA

WATER

UNUSUAL FIRE AND EXPLOSION HAZARDS

POWERFUL OXIDIZER. REACTS EXPLOSIVELY
WITH ORGANIC AND REDUCING MATERIALS. REACTS WITH FLUORINE TO FORM EXPLOSIVE
GAS FLUORINE PERCHLORATE.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS.

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

SEE SIGNS AND SYMPTOMS OF EXPOSURE.

PRIMARY ROUTES OF EXPOSURE

INHALATION, INGESTION

SIGNS AND SYMPTOMS OF EXPOSURE

HARMFUL IF INHALED OR SWALLOWED; CAUSES IRRITATION OF G.I. TRACT AND KIDNEYS; MAY CAUSE
HEMOLYSIS OF RED BLOOD CELLS & METHEMOGLOBINEMIA LEADING TO RESPIRATORY FAILURE.
MAY BE IRRITATING ON CONTACT WITH SKIN, EYES OR MUCOUS
MEMBRANES.

SECTION 5 - HEALTH HAZARD DATA (CONTINUED)**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**
RESPIRATORY CONDITIONS.**CARCINOGENICITY**

THE MATERIAL IS NOT LISTED AS A CANCER CAUSING AGENT.

NTP ☐ Yes ☒ NoIARC ☐ Yes ☒ NoOSHA ☐ Yes ☒ No**EMERGENCY AND FIRST AID PROCEDURES**

GET MEDICAL

ASSISTANCE FOR ALL CASES OF OVEREXPOSURE. SKIN: WASH WITH SOAP AND WATER.

EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION

IF NOT BREATHING. INGESTION: IF

CONSCIOUS, DRINK WATER AND INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL

PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

THRESHOLD LIMITS / TOXICITY DATA

ACGIH-TLV/OSAH-PEL: N/G. TOXICITY DATA: UNK-HMN LDLO: 429 MG/KG, ORL-RAT LD50: 1870 MG/KG.

TOXICOLOGICAL FINDINGS: N/G. CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS).

SECTION 6 - REACTIVITY DATA**STABILITY** Unstable ☐ Stable ☒**CONDITIONS TO AVOID**

KEEP OUT OF CONTACT WITH ORGANIC MATTER OR OTHER OXIDIZABLE SUBSTANCES; AVOID

EXTREME HEAT AND SHOCK. MAY EXPLODE UPON HEATING.

INCOMPATIBILITY (MATERIALS TO AVOID)

ACIDS, REDUCING MATERIALS,

COMBUSTIBLES, ORGANIC MATERIAL.

SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
CHLORINE AND CHLORINE COMPOUNDS, K2O

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. 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

N/G

LOCAL VENTILATION

SEE OTHER

MECHANICAL VENTILATION

SEE OTHER

SPECIAL VENTILATION

SEE OTHER

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

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

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS MUST BE WORN AT ALL TIMES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

N/G

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

KEEP CONTAINER TIGHTLY CLOSED. STORE AWAY FROM
COMBUSTIBLE, ORGANIC AND REDUCING MATERIALS. DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.
DO NOT TAKE INTERNALLY.
WASH THOROUGHLY AFTER HANDLING. EYE WASH AND SAFETY
EQUIPMENT SHOULD BE READILY AVAILABLE.

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

NFPA HAZARD RATINGS: HEALTH 2 FLAMMABILITY 0.
REACTIVITY : 0 SPECIAL HAZARDS: OXY. DOT
SHIPPING NAME: POTASSIUM CHLORATE DOT NUMBER: UN1485
COMMENTS: N/G. TSCA INVENTORY: THE
CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.
N/E = NOT ESTABLISHED N/G = NOT GIVEN
N/A = NOT AVAILABLE.