



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: MCX1600-2

ITEM NUMBER: 0748686

VNDR CATLG NBR:

ENTRY DATE: 02-24-90

CHANGE DATE: 08-15-95

PO NUMBER: 82676

COMMON NAME (ON LABEL)

CHROMIUM OXIDE

CHEMICAL FAMILY

OXIDE

TRADE NAME & SYNONYMS

CHROMIC OXIDE, CHROME GREEN
CHROMIUM OXIDE

CHEMICAL FORMULA

CR2O3

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
CHROMIUM OXIDE	1308-38-9	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 3000C	VOLATILE BY VOLUME (%) NONE	VAPOR PRESSURE N/A
MELTING POINT 2435C	VAPOR DENSITY N/A	SOLUBILITY IN WATER INSOLUBLE
EVAPORATION RATE (BUAC N/A	SPECIFIC GRAVITY 5.22	

APPEARANCE AND ODOR
GREEN CRYSTALLINE POWDER

OTHER PHYSICAL DATA
MOLECULAR WEIGHT: 152.02

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

NONCOMBUSTIBLE

LOWER EXPLOSIVE LIMIT

N/A

UPPER EXPLOSIVE LIMIT

N/A

EXTINGUISHING MEDIA

USE ANY SUITABLE FOR ADJACENT MATERIAL.

UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE INDICATED.

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

SIGNS AND SYMPTOMS OF EXPOSURE

DUST INHALATION HARMFUL TO RESPIRATORY PASSAGES AND LUNGS. HARMFUL IF SWALLOWED. IRRITATING ON CONTACT WITH SKIN, EYES, OR MUCOUS MEMBRANES.

SECTION 5 - HEALTH HAZARD DATA (CONTINUED)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
RESPIRATORY CONDITIONS.

CARCINOGENICITY

IARC CANCER REVIEW: ANIMAL INADEQUATE EVIDENCE.

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 THOROUGHLY. EYES: FLUSH THOROUGHLY WITH WATER IMMEDIATELY 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.

THRESHOLD LIMITS / TOXICITY DATA

ACGIH TLV/OSHA PEL:TWA: 0.5 MG(CR)/CU.M.

TOXICITY DATA: N/E

TOXICOLOGICAL FINDINGS:

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC EFFECTS AND CAUSE TUMORS. CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS).

SECTION 6 - REACTIVITY DATA

STABILITY Unstable ☐ Stable ☒
CONDITIONS TO AVOID
DUSTING.

INCOMPATIBILITY (MATERIALS TO AVOID)
NONE INDICATED.

SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
NONE INDICATED.

HAZARDOUS POLYMERIZATION May Occur ☐ Will Not Occur ☒
CONDITIONS TO AVOID
WILL 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: D007 TREATMENT:
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
IF WORKPLACE EXPOSURE LIMITS OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE TLV/PEL), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING AND/OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

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

PROTECTIVE GLOVES SHOULD BE WORN TO PREVENT SKIN CONTACT (NEOPRENE OR EQUIV)

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

SEE OTHER.

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

KEEP CONTAINER CLOSED AND PROTECTED FROM PHYSICAL DAMAGE STORE IN A WELL-VENTILATED AREA WASH THOROUGHLY AFTER HANDLING.

DO NOT TAKE INTERNALLY.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

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

HEALTH: 2 FLAMMABILITY: 0; REACTIVITY : 0

SPECIAL HAZARDS.: N/A; DOT SHIPPING NAME: (NON-REGULATED);

DOT NUMBER.....: (NONE);

COMMENTS.....:

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE N/E = NOT ESTABLISHED. N/A = NOT AVAILABLE.

N/G = NOT GIVEN