MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - - - -
CATALOG #: 60140
NAME: POTASSIUM CHROMATE, ACS

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -
CAS #: 7789-00-6
MF: CRK2O4
EC NO: 232-140-5
SYNONYMS
BIPOTASSIUM CHROMATE * CHROMATE OF POTASS * DIPOTASSIUM CHROMATE *
DIPOTASSIUM MONOCHROMATE * NEUTRAL POTASSIUM CHROMATE * POTASSIUM
CHROMATE(VI) * TARAPACAITE *

SECTION 3. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - - -
LABEL PRECAUTIONARY STATEMENTS
OXIDIZING
TOXIC
DANGEROUS FOR THE ENVIRONMENT
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
MAY CAUSE CANCER.
MAY CAUSE HERITABLE GENETIC DAMAGE.
TOXIC IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE
EFFECTS IN THE AQUATIC ENVIRONMENT.
TARGET ORGAN(S):
LUNGS
KIDNEYS
KEEP AWAY FROM COMBUSTIBLE MATERIAL.
AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS
HAZARDOUS WASTE.
AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/
SAFETY DATA SHEETS.

SECTION 4. - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - -
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. - - - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - - - -
EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
MAY ACCELERATE COMBUSTION.

SECTION 6. - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - -
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
EVACUATE AREA.

SECTION 7. - - - - - - HANDLING AND STORAGE- - - - - - - - - - -
REFER TO SECTION 8.

SECTION 8. - - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - - -
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
WASH THOROUGHLY AFTER HANDLING.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
NIOSH/MSHA-APPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR
EXPOSURE ABOVE THE ACGIH TLV.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
APPEARANCE AND ODOR
SOLID.
PHYSICAL PROPERTIES
MELTING POINT: 971 C
SPECIFIC GRAVITY: 2.732
VAPOR DENSITY: 6.7 G/L

SECTION 10. - - - - - - STABILITY AND REACTIVITY - - - - - - - -
STABILITY
STABLE.
INCOMPATIBILITIES
REDUCING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
POTASSIUM OXIDES
CHROMIUM (VI) OXIDE
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -
ACUTE EFFECTS
MAY CAUSE SKIN IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
MAY CAUSE EYE IRRITATION.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
MAY BE HARMFUL IF INHALED.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC EFFECTS
TARGET ORGAN(S):
LUNGS
KIDNEYS
LIVER
BLOOD
EYES, SKIN
THIS IS OR CONTAINS A COMPONENT THAT HAS BEEN REPORTED TO BE
CARCINOGENIC BASED ON ITS IARC, OSHA, ACGIH, NTP OR EPA CLASSIFICATION.
MAY ALTER GENETIC MATERIAL.
RTECS #: GB2940000
CHROMIC ACID (H2CRO4), DIPOTASSIUM SALT

TOXICITY DATA
- ORL-MUS LD50:180 MG/KG MUREAV 223,403,1989
- IPR-MUS LD50:32 MG/KG MUREAV 223,403,1989
- IMS-RBT LD50:11 MG/KG JFETAB 87,119,1946

TARGET ORGAN DATA
- BEHAVIORAL (FOOD INTAKE)
- BEHAVIORAL (MUSCLE WEAKNESS)
- BEHAVIORAL (COMA)
- LUNGS, THORAX OR RESPIRATION (BRONCHOCARCINOMA)
- GASTROINTESTINAL (NAUSEA OR VOMITING)
- BLOOD (LEUKEMIA)
- EFFECTS ON FERTILITY (OTHER MEASURES OF FERTILITY)
- EFFECTS ON EMBRYO OR FETUS (CYTOLOGICAL CHANGES)
- NUTRITIONAL AND GROSS METABOLIC (WEIGHT LOSS OR DECREASED WEIGHT GAIN)
- TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. - - - - - - - ECOLOGICAL INFORMATION - - - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - - DISPOSAL CONSIDERATIONS - - - - - -
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

SECTION 14. - - - - - - TRANSPORT INFORMATION - - - - - -
CONTACT FLUKA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - REGULATORY INFORMATION - - - - - -
EUROPEAN INFORMATION
EC INDEX NO: 024-006-00-8
OXIDIZING
TOXIC
DANGEROUS FOR THE ENVIRONMENT
R 49
MAY CAUSE CANCER BY INHALATION.
R 46
MAY CAUSE HERITABLE GENETIC DAMAGE.
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R 43
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R 50/53
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S 60
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.
S 61
AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

REVIEWS, STANDARDS, AND REGULATIONS
OEL=MAK
ACGIH TLV-TWA 0.05 MG(CR)/M3 DTLVS* TLV/BEI,1999
ACGIH TLV-CONFIRMED HUMAN CARCINOGEN DTLVS* TLV/BEI,1999
IARC CANCER REVIEW: HUMAN SUFFICIENT EVIDENCE IMEMDT 49,49,1990
IARC CANCER REVIEW: HUMAN INADEQUATE EVIDENCE IMEMDT 23,205,1980
IARC CANCER REVIEW: ANIMAL INADEQUATE EVIDENCE IMEMDT 23,205,1980
IARC CANCER REVIEW: GROUP 1 IMEMDT 49,49,1990
MSHA STANDARD-AIR: TWA 0.5 MG(CR)/M3
DTLVS* 3,35,1971
OSHA PEL (GEN INDU): CL 0.1 MG(CRO3)/M3
CFRGR 29,1910.1000,1994
OSHA PEL (CONSTRUC): CL 0.1 MG(CRO3)/M3
CFRGR 29,1926.55,1994
OSHA PEL (SHIPYARD): CL 0.1 MG(CRO3)/M3
CFRGR 29,1915.1000,1993
OSHA PEL (FED CONT): CL 0.1 MG(CRO3)/M3
CFRGR 41,50-204.50,1994
OEL-UNITED KINGDOM: CARCINOGEN, SEP2000
NIOSH REL TO CHROMIUM(VI)-AIR: 10H CA TWA 0.001 MG(CR)/M3
NIOSH* DHHS #92-100,1992
NOHS 1974: HZD 60370; NIS 48; TNF 3305; NOS 35; TNE 24042
NOES 1983: HZD 60370; NIS 35; TNF 2219; NOS 34; TNE 25411; TFE 5985
EPA GENETOX PROGRAM 1988, POSITIVE: CELL TRANSFORM.-SA7/SHE; MAMMALIAN
MICRONUCLEUS
EPA GENETOX PROGRAM 1988, POSITIVE: B SUBTILIS REC ASSAY; HISTIDINE
REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, POSITIVE: TRP REVERSION
EPA GENETOX PROGRAM 1988, POSITIVE/DOSE RESPONSE: IN VITRO UDS-HUMAN
FIBROBLAST
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001
U.S. INFORMATION
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS -
CHROMIUM COMPOUNDS.
THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE CANCER.
SECTION 16. - - - - - - - - - - OTHER INFORMATION- - - - - - - - - -
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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