POTASSIUM DICHROMATE, 3093

MSDS Number
CJVRV

National Stock Number
-

Product Name
POTASSIUM DICHROMATE, 3093

Manufacturer
MALLINCKRODT BAKER INC

Product Identification
Product ID: POTASSIUM DICHROMATE, 3093
MSDS Date: 12/08/1996
FSC: NIIN: Submitter: N EN
Status Code: A
MSDS Number: CJVRV

Responsible Party
MALLINCKRODT BAKER INC
222 RED SCHOOL LANE
PHILLIPSBURG, NJ 08865
US
Emergency Phone: 908-859-2151
Info Phone: 800-582-2537
Cage: 70829

Contractor
MALLINCKRODT BAKER, INC.
PHILLIPSBURG, NJ 08865
US
800-582-2537
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Ingredients
POTASSIUM DICHROMATE
CAS: 7778-50-9
RTECS: NX7680000
OSHA PEL see Table Z-2
ACGIH TLV: 0.05 MG/M3
EPA Report Quantity: 10 LBS
DOT Report Quantity: 10 LBS

Hazards
Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Reports of Carcinogenicity: NTP: YES IARC: YES OSHA: NO
Health Hazards Acute and Chronic: INHAL: CORR. EXTREMELY DESTRUCTIVE TO TISSUES OF MUC MEMBS & UPPER RESP TRACT. MAY CAUSE ULCERATION & PERFORATION OF THE NASAL SEPTUM. SYMPS MAY INCL SORE THROAT, COUGH, SHORTNESS OF BREATH & LABORED BRTHG. MAY PRODUCE PULM SENSIT OR ALLERGIC ASTHMA. HIGHER EXPOSURES MAY CAUSE PULM EDEMA. INGEST: CORR. SWALLOWING CAN CAUSE SEV BURNS OF MOUTH, THROAT & STOMACH
LEADING TO DEATH. CAN CAUSE SORE THROAT, VOMIT, DIARRHEA. MAY CAUSE VIOLENT GASTROENTERITIS, PERIPHERAL VASCULAR COLLAPSE, DIZZINESS, INTENSE THIRST, MUSCLE CRAMPS, SHOCK, COMA, ABNORMAL BLEEDING, FEVER, LIVER DAMAGE AND ACUTE RENAL FAILURE. SKIN CONTACT: CORRECT SYMPTOMS OF EXPOSURE.


Effects of Overexposure: HEALTH HAZARDS: REDNESS, PAIN AND SEVERE BURN CAN OCCUR. DUSTS AND STRONG SOLUTIONS MAY CAUSE SEVERE IRRITATION, WHICH MAY CAUSE SYSTEMIC POISONING, AFFECTING THE KIDNEY AND LIVER FUNCTIONS. MAY CAUSE SKIN SENSITIVITY. EYE CONTACT: CORRECT CONTACT CAN CAUSE BLURRED VISION, REDNESS, PAIN AND SEVERE TISSUE BURNS. MAY CAUSE CORNEAL INJURY OR BLINDNESS.

Medical Conditions Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS, ASTHMA, ALLERGIES OR KNOWN SENSITIZATION TO CHROMIC ACID OR CHROMATES MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

First Aid

First Aid: INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IMMEDIATELY. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

Fire Fighting

Extinguishing Media: FLOOD WITH LARGE AMOUNTS OF WATER. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. DO NOT ALLOW WATER RUNOFF TO ENTER SEWERS OR WATERWAYS. Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: FIRE: NOT COMBUSTIBLE, BUT THE SUBSTANCE IS STRONG OXIDIZER AND ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION. RELEASES OXYGEN UPON DECOMPOSITION, WHICH ENHANCES COMBUSTION. EXPLOSION: CONTACT WITH OXIDIZABLE SUBSTANCES MAY CAUSE EXTREMELY VIOLENT COMBUSTION.

Accidental Release

Spill Release Procedures: VENT AREA OF LEAK/SPILL. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT. SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL. USE REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS & RELEASES TO SOIL, WATER & AIR IN EXCESS OF REPORTABLE QUANTITIES. TOLL FREE NUMBER FOR US COAST GUARD NRC: 800-424-8802.

Handling

Handling and Storage Precautions: PROTECT AGAINST PHYSICAL DAMAGE. STORE IN DRY LOCATION SEPARATE FROM COMBUSTIBLES, ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS. AVOID STORAGE ON WOOD FLOORS. REMOVE & DISPOSE OF ANY SPILLED DICHROMATES; DO NOT RETURN TO ORIGINAL CONTAINERS. WEAR SPECIAL PROTECTIVE EQUIPMENT (SECTION 8) FOR MAINTENANCE (SUPDAT)

Other Precautions: WASH HANDS, FACE, FOREARMS & NECK WHEN EXITING RESTRICTED AREAS. SHOWER, DISPOSE OF OUTER CLOTHING, CHANGE TO CLEAN GARMENTS AT END OF DAY. AVOID CROSS-CONTAMINATION OF STREET CLOTHES. WASH HANDS BEFORE EATING & DO NOT DRINK OR SMOKE IN WORKPLACE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS EVEN AFTER THEY RETAIN A SUPPLEMENT.
Exposure Controls

Respiratory Protection: IF EXPOS LIMIT IS EXCEEDED, NIOSH APRVd
HALF-FACE DUST/MIST RESP MAY BE WORN UP TO TEN TIMES EXPOS LIMIT OR
MAXIMUM USE CONC SPECIFIED BY APPROP REGULATORY AGENCY OR RESP
SUPPLIER, WHICHEVER IS LOWEST T. NIOSH APRVd FULL-FACE PIECE
DUST/MIST RESP MAY BE WORN UP TO 50 TIMES EXPOS LIMIT OR MAX USE
CONC SPECIFIED BY APPROP REGULATORY AGENCY (TOXICOLOGICAL INFO)
Ventilation: SYSTEM OF LOCAL &/OR GENERAL EXHAUST IS RECOM TO KEEP
EMPLOYEE EXPOSURES BELOW AIRBORNE EXPOS LIMITS. LOCAL EXHAUST VENT
IS GENERALLY PREF (ECOLOGICAL INFO)
Protective Gloves: IMPERVIOUS GLOVES.
Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES & FULL LENGTH
FACESHIELD.
Other Protective Equipment: ANSI APPROVED EYE WASH AND DELUGE SHOWER.
WEAR IMPERVIOUS PROTECTIVE CLOTHING INCLUDING BOOTS, GLOVES, LAB
COAT, APRON OR COVERALLS AS APPROPRIATE, TO PREVENT SKIN CONTACT.
Supplemental Safety and Health
HNDLG/STOR PRECS: BREAK-IN OR WHERE EXPOSURES MAY EXCEED ESTABLISHED
EXPOS LEVELS. OTHER PRECS: PROD RESIDUES (DUST, SOLIDS); OBSERVE
ALL WARNINGS & PRECAUTIONS LISTED FOR PROD. PHYSICAL DATA: PH: 4.0
4 (1% AQ SOLUTION); 3.57 (10% AQ SOLUTION).

Chemical Properties

Boiling Pt: = 500. C, 932. F
Melt/Freeze Pt: = 398. C, 748.4F
Vapor Pres: NO INFO FOUND
Vapor Density: NO INFO
Spec Gravity: 2.676 @ 25C/4C
pH: SUPDAT
Evaporation Rate & Reference: NO INFO FOUND
Solubility in Water: 6.5% @ 10C (50F) IN WATER
Appearance and Odor: ORANGE-RED CRYSTALS OR POWDER; ODORLESS.
Percent Volatiles by Volume: 0 @ 21C(70F)

Stability

Stability Indicator/Materials to Avoid: YES
REDUCING AGENTS, ACETONE PLUS SULFURIC ACID, BORON PLUS SILICON,
ETHYLENE GLYCOL, IRON, HYDRAZINE & HYDROXYLAMINE. ANY COMBUSTIBLE,
ORGANIC OR OTHER READILY OXIDIZABLE MATERIAL (PAPER, WOOD, SULFUR,
ALUMINUM OR PLASTICS).
Stability Condition to Avoid: HEAT, INCOMPATIBLES. STABLE UNDER ORDINARY
CONDITIONS OF USE AND STORAGE.
Hazardous Decomposition Products: BURNING MAY PRODUCE CHROME OXIDES.

Disposal

Waste Disposal Methods: WHATEVER CANNOT BE SAVED FOR RECOVERY OR
RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE & SENT TO RCRA
APPRVd WASTE FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS
PROD MAY CHANGE WASTE MANAGEMENT OPTIONS. STATE & LOCAL DISPOSAL
REGS MAY DIFFER FROM FED DISPOSAL REGS. DISPOSE OF CONTAINER & UNUSED
CONTENTS I/A/W FED, STATE & LOCAL REQUIREMENTS.

Toxicology

Toxicological Information: INVESTIGATED AS A TUMORIGEN, MUTAGEN,
REPRODUCTIVE EFFECTOR. CANCER LISTS - POTASSIUM DICHROMATE
(7778-50-9): NTP CARCINOGEN - KNOWN-YES; ANTICIPATED-NO; IARC
CATEGORY 1. RESP PROT: OR RESP SUPPLIER, WHICHEVER IS LOWEST. FOR
EMERGS OR INSTANCES WHERE EXPOS LEVELS ARE NOT KNOWN, USE A NIOSH
APPRVd FULL-FACEPIECE POSITIVE-PRESS, AIR-SUPPLIED RESP. WARNING:
AIR-PURIFYING RESPS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT
ATMOSPHERES.

Other Information

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of
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document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.

Ecology
Ecological: ENVIRONMENTAL FATE: WHEN RELEASED INTO THE SOIL, THIS MATL
MAY LEACH INTO GROUNDWATER. WHEN RELEASED INTO WATER, THIS MATL IS
NOT EXPECTED TO EVAPORATE SIGNIFICANTLY. THIS MATL MAY
BIOACCUMULATE TO SOME EXTENT. WHEN RELEASED INTO AIR, THIS MATL
MAY BE REMOVED FROM ATMOSPHERE TO A MODERATE EXTENT BY WET
DEPOSITION. ENVIRONMENTAL TOXICITY: NO INFO FOUND. VENT: BECAUSE IT
CAN CONTROL EMISSIONS OF CON TAMINANT AT ITS SOURCE, PREVENTING
DISPERSION OF IT INTO GENERAL WORK AREA. PLEASE REFER TO ACGIH
DOCUMENT, INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED
PRACTICES, MOST RECENT EDITION, FOR DETAILS.

Transport
Transport Information: DOMESTIC (LAND, DOT) - PROPER SHIPPING NAME: RQ,
OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM DICHROMATE). HAZ
CLASS: 5.1, 8. UN/NA: UN3085. PACKING GROUP: II. INFO REPORTED FOR
PROD/SIZE: 400 LB. INTERNATIONAL (WATER, I.M.O.) - PROPER SHIPPING
NAME: OXIDIZING SOLID, CORROSIVE, N.O.S. (POTASSIUM DICHROMATE).
HAZ CLASS: 5.1, 8. UN/NA: UN3085. PACKING GROUP: II. INFO REPORTED
FOR PROD/SIZE: 400 LB. OTHER INFO: TIGHTLY CLSD CNTNR. DO NOT
STORE COMBUST MATLS. LABEL FIRST AID: IN CASE OF CNTCT, IMMED FLUSH
EYES/SKIN W/PLENTY OF WATER FOR AT LST 15 MIN WHILE REMOVING CONTAM
CLTHG & SHOES. WASH CLTH G BEFORE REUSE. IF (SARA REG INFO)

Regulatory
SARA Title III Information: POTASSIUM DICHROMATE (7778-50-9) - FEDERAL,
STATE & INTERNATIONAL REGULATIONS - PART 1: SARA 302 - RQ-NO;
TPQ-NO. SARA 313 - LIST-NO; CHEMICAL CATG-CHROMIUM COM. SARA
311/312: ACUTE: YES, CHRONIC: YES, FIRE: YES, PRESSURE: NO,
REACTIVITY: YES (PURE / SOLID). TRANSPORT INFO: INHALED, REMOVE TO
FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG DFCLT, GIVE
OXYGEN. IF SWALLOWED, DO NOT INDUCE VOMIT. GIVE L G QTYS OF WATER.
NEVER GIVE ANYTHING BY MOUTH TO UNCON PERSON. IN ALL CASES GET MED
ATTN IMMED. PROD USE: LAB REAGENT. REVISION INFO: PURE. NEW 16
SECTION MSDS FORMAT, ALL SECTIONS HAVE BEEN REVISED. A IRBORNE
EXPOS (STATE REG INFO)
Federal Regulatory Information: POTASSIUM DICHROMATE (7778-50-9) -
CHEMICAL INVENTORY STATUS - PART 1: TSCA-YES, EC-YES; JAPAN-YES,
AUSTRALIA-YES. CHEMICAL INVENTORY STATUS - PART 2: KOREA-YES,
CANADA DSI-YES, CANADA NDSL-NO, PHIL-Y ES. FEDERAL, STATE &
INTERNATIONAL REGS - PART 2: CERCLA-10, RCRA 261.33-NO, TSCA
8(D)-NO. CHEMICAL WEAPONS CONVENTION; NO. TSCA 12(B): YES. CDTA:
YES. AUSTRALIAN HAZCHEM CODE: 1WE. POISON SCHEDULE: S 6. WHMIS:
THIS MSDS HAS BEEN PREPARED ACCORDING TO HAZARD CRITERIA OF
CONTROLLED PRODUCTS REGULATION S (CPR) AND THE MSDS CONTAINS ALL
OF THE INFORMATION REQUIRED BY THE CPR.
State Regulatory Information: PROP 65: THIS PRODUCT CONTAINS A
CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. SARA
REG INFO: LIMS: OSHA PEL: FOR CHROMIC ACID & CHROMATES, AS CRO3 =
0.1 MG/M3 (CEILING) - ACGIH TLV: F OR WATER-SOL CR(VI) CMPDS, AS CR
= 0.05 MG/M3 (TWA), A1 - CONFIRMED CARCIN. JT BAKER SAF-T-DATA
RATINGS: HEALTH: 4-EXTREME (CANCER CAUSING); FLAMMABILITY: 0-NONE;
REACTIVITY: 3-SEVERE (OXIDIZER); CONT ACT: 3-SEVERE (LIFE); LAB
PROT EQUIP; GOGGS; LAB COAT; VENT HOOD; PROPER GLOVES. STORAGE
COLOR CODE: YELLOW (REACTIVE).