

MALLINCKRODT INC SCIENCE PROD DIV -- SODIUM DICHROMATE -- 6810-00-077-8564

===== Product Identification =====

Product ID:SODIUM DICHROMATE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-077-8564

MSDS Number: BLPDR

=== Responsible Party ===

Company Name:MALLINCKRODT INC SCIENCE PROD DIV

Box:M

City:PARIS

State:KY

ZIP:43061

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

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Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:DICHROMIC ACID (H*2CR*2O*7), DISODIUM SALT, DIHYDRATE;
(SODIUM DICHROMATE)

CAS:7789-12-0

RTECS #:HX7750000

OSHA PEL:0.1 MG(CRO*3)/M3

ACGIH TLV:0.05 MG(CR)/M3

Ingred Name:SUPP DATA:SODA LIME. DISPOSE OF SOLIDS AS HAZ WASTE

IN RCRA

APPRVD FACILITY. ENSURE COMPLIANCE W/LOCAL,STATE & FED REGS.
RTECS #:9999999ZZ

Ingred Name:OTHER PREC:GARMENTS AT END OF DAY.AVOID CROSS- CONTAM OF
STREET CLOTHES.KEEP FROM CNTCT W/CLTHG,OTHER COMBUST(SEE ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3:MATLS. DO NOT STORE NEAR COMBUST MATLS. STORE IN
TIGHTLY CLOSED CNTNR. REMOVE & WASH CONTAMD CLTHG (SEE ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:IMMED.USE ONLY W/ADEQ VENT.DO NOT BREATHE DUST.DO NOT
GET IN EYES,ON SKIN/CLTH
G.CNTCT W/OTHER MATL MAY CAUSE FIRE.
RTECS #:9999999ZZ

Ingred Name:HYGIENE PRACT:OR SMOKE IN WORKPLACE. WASH THOROUGHLY AFTER
HANDLING.
RTECS #:9999999ZZ

Ingred Name:VENT:BECAUSE IT CAN CONTROL EMISSIONS OF CONTAMINANT AT
SOURCE, PREVENTING DISPERSION INTO GENERAL WORK AREA.
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:DANGER! POWERFUL OXIDIZER. CAUSES SEVERE
BURNS. MAY CAUSE DELAYED BURNS OR EXTERNAL ULCERS. (SEE ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8:CONTAINS HEXAVALENT CH
ROMIUM. EXPOSURE MAY CREATE A
CANCER RISK. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED.
RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:LD50:(ORAL,RAT)50 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHAL:SEVERE IRRITANT. CORR ACTION ON
MUC MEMB & RESP TRACT MAY PRDCE NASAL IRRIT & BURNING SENSATION IN
THROAT. INGEST:T

OXIC. CORR TO MOUTH & GI TRACT. SYMPS MAY INCLUDE
ABDOMINAL PAIN, DIZZ, VOMIT, INTENSE THIRST, SHOCK & KIDNEY
FAILURE.FATAL DOSE MAY BE AS LOW AS 5 GRAMS. SKIN:CORR. MAY PRDCE
(SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity:SODIUM DICHROMATE:GROUP 1 (NTP);IARC
-GROUP 1

Effects of Overexposure:HLTH HAZ:SKIN RASHES & ULCERS. BICHROMATES ARE
SKIN SENSITIZERS. EYE:CORR. MAY CAUSE CONJUNCT IF IN CNTCT W/EYES.
CHRONIC:RPTD SKIN CNTCT MAY LEAD TO INCAPACITATING DERM & SLOW

HEALING ULCERS. RPTD IN HAL MAY CAUSE PERFORATION OF NASAL SEPTUM.
BICHROMATES PRIMARILY TOXIC TO KIDNEYS, LIVER & GI TRACT. (SEE ING
8)

Medical Cond Aggravated by Exposure:PERSONS W/PRE-EXISTING SKIN OR EYE
PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO EFFECTS OF THIS SUBSTANCE.

===== First Aid Measures =====

First Aid:INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF
BRTHG DFCLT,
GIVE O*2. CALL MD. INGEST:INDUCE VOMIT IMMED BY GIVING
2 GLASSES OF WATER & STICKING FINGER DOWN THROAT. NEVER GIVE
ANYTHING BY MOUTH TO UNCON PERSON. CALL MD IMMED. SKIN:REMOVE ANY
CONTAMD CLTHG. WIPE OFF EXCESS FROM SKIN. WASH W/PLENTY OF WATER
FOR AT LEAST 15 MIN. GET MD IMMED. EYE:WASH W/PLENTY OF WATER FOR
AT (SUPP DATA)

===== Fire Fighting Measures =====

Flash Point:NOT COMBUSTIBLE

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTIN
GUISHING

SURROUNDING FIRE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED
CONTAINERS COOL.

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP
. NOT COMBUSTIBLE, BUT SUBSTANCE IS STRONG OXIDIZER & HEAT OF RXN
W/REDUCING AGENTS/COMBUST MAY CAUSE IGNIT.

Unusual Fire/Explosion Hazard:STRONG OXIDANTS MAY EXPLODE WHEN
SHOCKED/IF EXPOSED TO HEAT, FLAME/FRICTION. ALSO MAY ACT AS
INITIATION SOURCE FOR DUST OR VAPOR EXPLOSIONS.

===== Accidental Rele

ase Measures =====

Spill Release Procedures:REMOVE ALL SOURCES OF IGNIT. CLEAN-UP PERS REQ
PROT CLTHG & RESP PROT FROM CORR. CAREFULLY SWEEP UP & PLACE IN
METAL CNTNR FOR DISP. AVOID DUST DISPERSAL. FLUSH AREA OF SPILL
W/DILUTE FERROUS SULFATE/ SODIUM SULFITE SOLN & DISCARD TO SEWER.
Neutralizing Agent:NEUTRALIZE ANY REMAINING TRACES W/SODA ASH.

===== Handling and Storage =====

Handling and Storage Precautions:PROT AGAINST PHYS DMG.
STORE IN DRY
LOCATION SEPARATE FROM COMBUST, ORG/OTHER READILY OXIDIZABLE MATLS.
AVOID STORAGE ON WOOD FLOORS.
Other Precautions:REMOVE & DISPOSE OF ANY SPILLED DICHROMATES; DO NOT
RETURN TO ORIGINAL CNTNRS. WEAR SPECIAL PROT EQUIP FOR MAINTENANCE
BREAK-IN/WHERE EXPOS MAY EXCEED ESTABLISHED EXPOS LEVELS. SHOWER,
DISPOSE OF OUTE R CLTHG, CHNG TO CLEAN (SEE ING 3)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF TLV EXCEEDED, A NI
OSH/MSHA APPRVD DUST/MIST
RESP W/CHEM GOGGLES MAY BE WORN, IN GEN, UP TO 10 TIMES TLV.
CONSULT RESP SUPPLIER FOR LIMITATIONS. ALTERNATIVELY, NIOSH/MSHA
APPRVD SUPPLIED AIR FULL FA CEPIECE RESP/AIRLINED HOOD MAY BE WORN.
Ventilation:SYS OF LOCAL &/OR GEN EXHAUST RECOMM TO KEEP EXPOS BELOW
AIRBORNE EXPOS LIM. LOCAL EXHAUST VENT GEN PREFERRED(SEE ING 7)
Protective Gloves:IMPERVIOUS GLOVES.
Eye Protection:CHEM WORK GOG & FULL LENGTH FSHLD.
Other Protective Equipment:IMPERVIOUS PROT C
LTHG, INCLDG BOOTS, LAB
COAT, APRON/COVERALLS. MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH
FACILITIES.
Work Hygienic Practices:WASH HANDS, FACE, FOREARMS & NECK WHEN EXITING
RESTRICTED AREAS. WASH HANDS BEFORE EATING & DO NOT EAT, DRINK(SEE
ING 6)
Supplemental Safety and Health
BP:DECOMPOSES @ 752F. MATLS TO AVOID:ESPECIALLY IN PRESENCE OF STRONG
ACID SOLUTIONS. FIRST AID PROC:LEAST 15 MIN, LIFTING LIDS OCCASNLY.
GET MD IMMED. WASTE DISP METH:SULFATE/CHLORIDE. REDUCED CHROM

I UM

MAY THEN BE PRECIPITATED AS HYDROUS CHROMIC OXIDE BY NEUTRALIZING TO PH 7.5 W/SODA ASH, CAUSTIC SODA OR (SEE ING 2)

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:SUPP DATA
Melt/Freeze Pt:M.P/F.P Text:675F,357C
Vapor Pres:0 @ 68F
Spec Gravity:2.35 @ 77F
Solubility in Water:SOLUBLE (73%)
Appearance and Odor:ORANGE-RED CRYSTALS OR GRANULES, ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/M
aterials to Avoid:YES
HYDRAZINE, ACETIC ANHYDRIDE, ETHANOL, TRINITROTOLUENE, HYDROXYLAMINE,
STRONG ACIDS, OXIDIZABLE MATERIALS (SUPP DATA)
Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE
AND STORAGE.
Hazardous Decomposition Products:OXIDES OF CHROMIUM.

===== Disposal Considerations =====

Waste Disposal Methods:CONTAINERIZED SOLIDS MAY BE SENT TO RCRA APPRVD
HAZ WASTE DISP FACILITY. HEXAVALENT CHROMIUM IN SOLN MAY BE REDUCED
T
O TRIVALENT CHROMIUM BY A VARIETY OF REDUCING AGENTS SUCH AS
SODIUM BISULFITE, SODIUM SULFITE, SULFUR DIOXIDE OR FERROUS (SUPP
DATA)

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