

MALLINCKRODT INC SCIENCE PROD DIV -- SODIUM DICHROMATE -- 6810-00-312-7158

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Product Identification
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Product ID:SODIUM DICHROMATE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-312-7158

MSDS Number: BLPFH

=== 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

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Composition/Information on Ingredients
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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/CLT

HG.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 CHROMIUM. 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:

TOXIC. 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 & S

LOW
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.

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

First Aid:INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF
BRTHG DFCL
T, GIVE O*2. CALL MD. INGEST: INDUCE VOMIT IMMED BY
GIVING 2 GLASSES OF WATER & STICKING FINGER DOWN THROAT. NEVER GIVE
ANYTHING B Y 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)

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

Flash Point:NOT COMBUSTIBLE

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXT
INGUISHING

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.

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===== Accidental Re

Spill Release 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 DM

G. 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 NIOSH/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 CLTHG, 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

CHROMIUM MAY THEN BE PRECIPITATED AS HYDROUSCHROMIC 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
/Materials 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 APPROVED HAZ WASTE DISP FACILITY. HEXAVALENT CHROMIUM IN SOLN MAY BE REDUCED TO TRIVALENT CHROMIUM BY A VARIETY OF REDUCING AGENTS SUCH AS SODIUM BISULFITE, SODIUM SULFITE, SULFUR DIOXIDE OR FERROUS (SUPP DATA)

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