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

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

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

======= 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 #:9999992Z

========= 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 & SL **OW**
 - 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: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)

Flash Point: NOT COMBUSTIBLE

Extinguishing Media: USE ANY MEANS SUITABLE FOR EXTI **NGUISHING**

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 Rel

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 N

IOSH/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

CHROM IUM 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 APPRVD HAZ WASTE DISP FACILITY. HEXAVALENT CHROMIUM IN SOLN MAY BE REDUCED

TO TRIVALENT CHROMIUM BY A VARIETY OF REDUCING AGENTS SUCH AS SODIUM BISULFITE, SODI UM SULFITE, SULFUR DIOXIDE OR FERROUS (SUPP DATA)

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