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MALLINCKRODT BAKER, INC. (FORMERLY J.T. BAKER INC) -- SODIUM DICHROMATE (SEE SUPPL) -- 6810-00-143-2000

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

Product ID:SODIUM DICHROMATE (SEE SUPPL)

MSDS Date:10/15/1998

FSC:6810

NIIN:00-143-2000 Status Code:A

MSDS Number: CLQFF === Responsible Party ===

Company Name: MALLINCKRODT BAKER, INC. (FORMERLY J.T. BAKER INC)

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

S

tate:NJ

ZIP:08865-2219

Country:US

Info Phone Num:800-582-2537

Emergency Phone Num:908-859-2151 Resp. Party Other MSDS Num.:S3506 Chemtrec Ind/Phone:(800)424-9300

CAGE:70829

=== Contractor Identification ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Phone:800-582-2537

CAGE:70829

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

Ingred Name:SODIUM DICHROMATE

CAS:10588-01-9 RTECS #:HX7700000

Minumum %

Wt:99.

Maxumum % Wt:100.

OSHA PEL:SEE TABLE Z-2 ACGIH TLV:0.05 MG/M3 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:ORAL RAT LD50: 50 MG/KG Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:INHALATION: CORROSIVE! EXTREMELY DESTRUCTIVE TO TISSUES OF MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. MAY CAUSE ULCERATION AND PERFORATION OF NASAL SEPTUM. INGESTION: CORROSIVE! SWALL

OWING CAN CA USE SEVERE BURNS OF MOUTH,

THROAT, AND STOMACH, LEADING TO DEATH.CAN CAUSE LIVER DAMAGE, ACUTE RENAL FAILURE. SKIN CONTACT: CORROSIVE! DUSTS AND STRONG SOLUTIONS MAY CAUSE SEVERE IRRITATION. CONTACT WITH BROKEN SKIN MAY CAUSE ULCERS (CHROME SORES) AND ABSORPTION, WHICH MAY CAUSE SYSTEMIC POISONING, AFFECTING KIDNEYS AND LIVER FUNCTIONS. MAY CAUSE SKIN SENSITIZATION. EYE CONTACT: CORROSIVE! MAY CAUSE CORNEAL INJURY OR BLINDNESS.

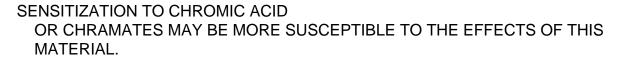
**Explanation of Carcinog** 

enicity:PRODUCT KNOWN TO BE A CARCINOGEN. SODIUM
DICHROMATE (10588-01-9); KNOWN NTP CARCINOGEN. IARC CATEGORY: 1
("THE AGENT IS CARCINOGENIC TO HUMANS". DEGREE OF EVIDENCE:
"INADEQUATE EVIDENCE".)

Effects of Overexposure:INHALATION: SORE THROAT, COUGHING, SHORTNESS OF BREATH, LABORED BREATHING, PULMONARY SENSITIZATION OR ALLERGIC ASTHMA, PULMONARY EDEMA. INGESTION: BURNS OF MOUTH, THROAT, STOMACH, SORE THROAT, VOMITIN G, DIARRHEA, VIOLENT GASTROENTERITIS, PERIPHERAL V

ASCULAR COLLAPSE, DIZZINESS, INTENSE THIRST, MUSCLE CRAMPS, SHOCK COMA, ABNORMAL BLEEDING, FEVER, SKIN: REDNESS, PAIN, SEVERE BURN, IRRITATION, ULCER S (CHROME SORES) AND ABSORPTION, SYSTEMIC POISONING, AFFECTING KIDNEY AND LIVER FUNCTIONS, SKIN SENSITIZATION. EYE CONTACT: BLURRED VISION, REDNESS, PAIN, AND SEVERE TISSUE BURNS. MAY CAUSE CORNEAL IN JURY OR BLINDNESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, ASTHMA, ALLERGIES OR KNOWN



First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION. SKIN CO

NTACT: FLUSH

WITH WATER FOR 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTE NTION. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCASIONALLY. GET MEDICAL ATTENTION.

Flash Point: NOT COMBUSTIBLE

Extinguishing Media:USE MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. USE WATER

SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. PRODUCT IS NOT COMBUSTIBLE, IS A STRONG OXIDIZER. ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION.

Unusual Fire/Explosion Hazard:STRONG OXIDANTS MAY EXPLODE WHEN SHOCKED, OR IF EXPOSED TO

HEAT, FLAME, OR FRICTION. ALSO MAY REACT AS INITIATION SOURCE FOR DUST OR VAPOR EXPLOSIONS.

========= Accidental Release Measures ==========

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIIPMENT. SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL. US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS AND RELEASES TO SOIL, WATER AND AIR IN

EXCESS OF REPORTABLE QUANTITIES. TOLL FREE NUMBER FOR US COAST GUARD NATIONAL RESPONSE CENTER IS (800)424-8802.

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN DRY LOCATION AWAY FROM COMBUSTIBLE, ORGANIC, OR OTHER OXIDIZABLE MATERIAL. AVOID STORAGE ON WOOD FLOORS. REMOVE AND DISPOSE OF ANY SPILLED DICHROMATES; DO NOT RETURN TO ORIGINAL CONTAINERS. WEAR SPECIAL PROTECTIVE EQUIPMEN

T FOR MAINTENANCE (CONTD. SEE BELOW)

Other Precautions:(CONTD. FROM ABOVE) BREAK-IN OR WHERE EXPOSURE MAY EXCEED ESTABLISHED EXPOSURE LEVELS. WASH HANDS, FACE, FOREARMS AND 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 (CONTD. SEE "OTHER INFO")

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

Respiratory Protection: IF THE EXPOS

URE LIMIT IS EXCEEDED, A FULL-FACE

PIECE DUST/MIST RESPIRATOR MAY BE WORN UP TO 50 TIMES EXPOSURE LIMIT. FOR EMERGENCIES OR INSTANCES WHERE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEP IECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING! AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

Ventilation:LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW LIMITS.LOCAL EXHAUST IS GENERALLY PREFERRED.

Protecti

ve Gloves:WEAR IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT.

Eye Protection:USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD FOR DUSTING AND SPLASHING.

Other Protective Equipment:WEAR IMPERVIOUS CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON, COVERALLS, TOPREVENT SKIN CONTACT. PROVIDE QUICK DRENCH FACILITIES AND EYE WASH FOUNTAIN IN WORK AREA.

Work Hygienic Practices: SHOWER, DISPOSE OF OUTER CLOTHING, CHANGE TO CLEAN GARMENTS AT THE END OF THE DAY. AVOID CROSS-CONTAMINATION OF

STREET CLOTHES. WASH HANDS BEFORE EATING, DO NOT DRINK, EAT OR SMOKE IN WORKPLACE.

Supplemental Safety and Health

CONTD FROM PRODUCT ID: PRODUCT CODES: BAKER: 3672, 3674. MALLINCKRODT: 7420, 7424. SYNONYMS: SODIUM DICHROMATE; SODIUM BICHROMATE DIHYDRATE; CHROMIC ACID; DISODIUM SALT, DIHYDRATE; SODIUM DICHROMATE, DIHYDRATE.

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

HCC:D2 Boiling Pt:=400.C, 752.F Melt/Freeze Pt:=357.C, 674.6F Vapor Pres:0 MM HG,

@ 20C Vapor Density:10 (AIR=1) Spec Gravity:2.35 @ 25C pH:3.5 (1%SOLN) Evaporation Rate & DENCE THE CONTROL OF CONTROL Solubility in Water:SOLUBLE 73% IN WATER.
Appearance and Odor:ORANGE-RED CRYSTALS OR GRANULES; ODORLESS. Percent Volatiles by Volume:0
========= Stability and Reactivity Data ===========
Stability Indicator/Materials to Avoid:YES
HYDRAZINE, ACETIC ANHYDRIDE, ETHANOL, TRINITROTOLUENE, HYDROXYLAMINE, STRONG ACIDS, OXIDIZABLE MATERIALS ESPECIALLY IN P RESENCE OF STRONG
ACID SOLUTIONS. COMBUSTIBLE, ORGANIC, OTHER READILY OXIDIZABLE MATERIAL (PAPER, WOOD,
Stability Condition to Avoid:HEAT, INCOMPATIBLES. STABLE UNDER ORDINARY  CONDITIONS OF USE AND STORAGE.
Hazardous Decomposition Products:BURNING MAY PRODUCE CHROME OXIDES. Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:HEALTH: CHRONIC EXPOSURE CAN CAUSE ULCERATION AND PERFORATION O
F NASAL SEPTUM, RESPIRATORY IRRITATION, LIVER AND
KIDNEY DAMAGE, ULCERATION OF SKIN. ULCERATIONS AT FIRST MAY BE
PAINLESS, MAY PENETRATE TO BONE PRODUCING "CHROME HOLES". KNOWN TO
BE A HUMAN CARCINOGEN. J.T. BAKER SAF-T-DATA RATINGS: HEALTH: 4, EXTREME (CANCER CAUSING); FLAMMABILITY: 0, NONE; REACTIVITY: 3,
SEVERE (OXIDIZER); CONTACT: 3, SEVERE (CORROSIVE); LAB PROTECTIVE
EQUIP.: GOGGLES AND SHIELD; LAB COAT AND APRON; VENT HOOD; PROPER
GLOVES. ORAL, RAT, LD50: 50 M
G/KG. INVESTIGATED AS A TUMORIGEN,
MUTAGEN, REPRODUCTIVE EFFECTOR.

========= Ecological Information ==============

Ecological:ENVIRONMENTAL FATE: WHEN RELEASED INTO SOIL, PRODUCT MAY LEACH INTO GROUNDWATER. WHEN RELEASED INTO WATER, PRODUCT IS NOT EXPECTED TO EVAPORATE SIGNIFICANTLY. THIS MATERIAL MAY BIOACCUMULATE TO SOME E XTENT. WHEN RELEASED INTO THE AIR, PRODUCT MAY BE REMOVED FROM THE ATMOSPHERE TO A MODERATE EXTENT BY WET DEPOSITION. ENVIRONM

TOXIC TO AQUATIC LIFE. ======= Disposal Considerations =========== Waste Disposal Methods: WHAT IS NOT SAVED FOR RECOVERY, RECYCLING, HANDLE AS HAZARDOUS WASTE. SEND TO RCRA APPROVED WASTE FACILITY. PROCESSING, USE, CONTAMINATION MAY CHANGE WASTE MANAGEMENT OPTIONS, STATE AND LOCAL REGULATIONS MAY DIFFER FROM FEDERAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL. STATE, AND LOCAL REQUIREMENTS. ======== MSDS Transport Information ============ Transport Information: DOMESTIC (LAND, D.O.T.): PROPER SHIPPING NAME: RQ, OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM DICHROMATE); HAZARD CLASS: 5.1, 8, 6.1; UN 3085; PKG: I I; INFORMATION REPORTED FOR PRODUCT/ SIZE: 100 LBS. INTERNATIONAL (WATER, I.M.O.): PROPER SHIPPING NAME: OXIDIZING SOLID, CORROSIVE, N.O.S. (SODIUM DICHROMATE); CLASS: 5.1, 8, 6.1; UN 3083; PKG: I I; INFO **RMATION** REPORTED FOR PRODUCT/SIZE: 100 LBS. SO DIUM DICHROMATE RQ= 10 POUNDS. SARA Title III Information: FEDERAL, STATE AND INTERNATIONAL REGULATIONS - PART 1: SODIUM DICHROMATE (10588-01-9): SARA 302: NO; TPQ: NO. SARA 313: LIST: NO; CHEMICAL CATG: CHROMIUM COM. -PART 2: CERCLA: 10; RCRA 261.33: NO; TSC A 8(D): NO. SARA 311/312: ACUTE: YES; CHRONIC: YES; FIRE: YES; PRESSURE: NO; REACTIVITY: NO; (PURE SOLID). Federal Regulatory Information: CHEMICAL INVENTORY STATUS - PART1: SODIUM DICHROMATE (10588-01-9): TSCA: YES; EC: YES; JAPAN: YES; AUSTRALIA: YES. - PART 2: KOREA: YES; CANADA DSL: YES; CANADA NDSL: NO; PHIL.: YES. CHEMICAL WEAPONS CONVENTION: NO; TSCA 12(B): YES; CDTA: NO. State Regulatory Information: WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

========== Other Information ================

ENTAL TOXICITY: THIS PRODUCT IS EXPECTED TO BE

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