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MALLINCKRODT BAKER INC -- TRICHLOROACETIC ACID, 0414 -- 6810-00-834-5162

Product ID:TRICHLOROACETIC ACID, 0414

MSDS Date:12/08/1996

FSC:6810

NIIN:00-834-5162 Status Code:A

MSDS Number: CJTTY === Responsible Party ===

Company Name: MALLINCKRODT BAKER INC

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Info Phone Num:800-582-2537

Emergen

cy Phone Num:908-859-2151

Resp. Party Other MSDS Num.:T4823 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:TRICHLOROACETIC ACID (HAZARDOUS)

CAS:76-03-9

RTECS #:AJ7875000

= Wt:100.

Other REC Limits:N/K

OSHA PEL:N/K OSHA STEL:N/K

ACGIH

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION: INHALATION OF DUST MAY CAUSE COUGHING, CHOKING, WITH VARIABLE SYMPTOMS OF HEADACHE, DIZZINESS, AND WEAKNESS. MAY CAUSE LUNG EDEMA. INGESTION: CORROSIVE. SORE THROAT, SEVERE ABDOMINA L PAIN, VOMITING, AND TISSUE DA

MAGE MAYOCCUR. SKIN: CORROSIVE. REDNESS, PAIN, SKIN BURNS
CAN OCCUR. EYES: CORROSIVE. REDNESS, PAIN, BLURRED VISION CAN
OCCUR. CAN CAUSE BURNS AND PERMANENT EYE DAMAGE. CHRONIC: LONG
EXPOSURES TO ACID FUMES MAY CAUSE EROSION OF THE TEETH FOLLOWED BY
JAW NECROSIS. BRONCHIAL IRRITATION W/CHRONIC COUGH AND FREQUENT
ATTACKS OF BRONCHIAL PNEUMONIA MAY ALSO OCCUR.

Explanation of Carcinogenicity:TRICHLOROACETIC ACID (76-03-9): IARC CATEGORY 3.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:PERSONS WITH SKIN DISORDERS, EYE PROBLEMS, OR RESPIRATORY PROBLEMS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHAL: REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTIFICIAL RESP. IF BRTHG IS DIFFICULT, GIVE OXYGEN. CALL MD IMMED. INGEST: IF SWALLOWED, DO NOT INDUCE VOMIT. GIVE LARGE QTYS OF WATER. NEVER GIVE ANYTH ING BY MOUTH TO AN UNCON PE

RS. GET MED ATTN IMMED. SKIN:

IMMED FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS WHILE REMOVING CONTAM CLTHG & SHOES. WASH CLTHG BEFORE REUSE. EXCESS ACID ON SKIN CAN BE NEU TRALIZED W/2% BICARBONATE OF SODA SOLUTION. CALL MD IMMED. WASH CLTHG BEFORE REUSE. EYES: IMMED FLUSH W/GENTLE BUT LARGE STREAM OF WATER FOR AT LEAST 15 MINS, LIFTING LOWER & UPPER EYELIDS OCCAS. CALL MD IMMED. IN ALL CASES, CALL MD IMMED.

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

Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. WATER SPRAY MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. WATER SPRAY MAY ALSO REDUCE FUMES AND IRRITANT GASES.

Unusual Fire/Explosion Hazard: AQUEOUS SOLUTIONS ARE ACIDIC AND CAN REACT WITH MOST COMMON METALS TO RELEASE FLAMMABLE HYDROGEN GAS. NOT CONSIDERED TO BE A FIRE OR AN EXPLOSION HAZARD.

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========	Accidental Release Measures	

Spill Release Procedures: VENT AREA. CLEAN-UP PERS NEED PROT AGAINST INHAL/CONT W/SUBSTANCE. COVER SPILL W/EXCESS SODIUM BICARBONATE. CAREFULLY SWEEP UP MATL & PLACE IN CORR-RESIST CONTR FOR DISP. IF MATL HAS MIXED W/WATER, AF TER NEUTRALIZING MATL W/SODIUM BICARBONATE, ABSORB W/INERT MATL (E.G., VERMICULITE, DRY SAND, EARTH) & PLACE IN CORR-RESIST CONTR. DO NOT USE COMBUST MATLS, SUCH AS SAWDUST. DO NOT FLUSH TO SEWER.

Neutralizing Agent:SODIUM BICARBONATE.

====== Handling and Storage	
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Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTAINER, STORED IN COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. CONTAINERS OF THIS MATL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS & PRECAUTIONS LISTED FOR PRODUCT.

Other Precautions:DO NOT GET
IN EYES, ON SKIN, OR ON CLOTHING. DO NOT
BREATHE DUST. KEEP CONTAINER TIGHTLY CLOSED. USE ONLY WITH ADEQUATE VENTILATION.

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

Respiratory Protection:IF EXPOS LIM IS EXCEEDED, A NIOSH APPRVD HALF-FACE RESP W/ORG VAP/ACID GAS CARTRIDGE & DUST/MIST FILTER MAY BE WORN FOR UP TO 10 TIMES EXPOS LIM/MAX USE CONC SPECIFIED BY APPROP REGULATORY AGENCY/RESP SUPPLIER, WHICHEVER IS LOWEST. A NIOSHAPPRVD FULL-FACE PIE

CE RESP W/ORG VAP/ACID GAS CARTRIDGE MAY
BE WORN UP TO 50 TIMES EXPOS LIM/MAX USE CONC (SUP DAT)

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. (TOXICOLOGICAL INFORMATION)

Protective Gloves: IMPERVIOUS PROTECTIVE GLOVES.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH FACESHIELD.

Other Protective Equipment:EYEWASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA . WEAR IMPERV

IOUS PROTECTIVE CLOTHING, INCLUDING BOOTS,

LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

WASTE DISP METH: STATE & LOC DISP REGS MAY DIFFER FROM FED DISP REGS. DISPOSE OF CONTR & UNUSED CONTENTS I/A/W FED, STATE & LOC REQS. RESP PROT: SPECIFIED BY APPROP REGULATORY AGENCY/RESP SUPPLIER, WH ICHEVER IS LOWEST. FOR EMERS/INSTANCES WHERE EXPOS LEVELS ARE NOT KNOWN. U

SE NIOSH APPRVD FULL-FACE PIECE (OTHER INFO)

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

Boiling Pt:=197.8C, 388.F Melt/Freeze Pt:=57.8C, 136.F

Vapor Pres:1.3 MM HG @ 51C (124F)

Spec Gravity:1.6

pH:1.2

Solubility in Water: VERY SOLUBLE

Appearance and Odor: WHITE HYGROSCOPIC CRYSTALS WITH PUNGENT ODOR.

=======================================	Stability and	Reactivity	Data	=======================================
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Stability Indicator/Materials to Avoid:YES

STRONG BASES. HEATING WITH ALKALI YIELDS CHLOROFORM AND ALK ALI

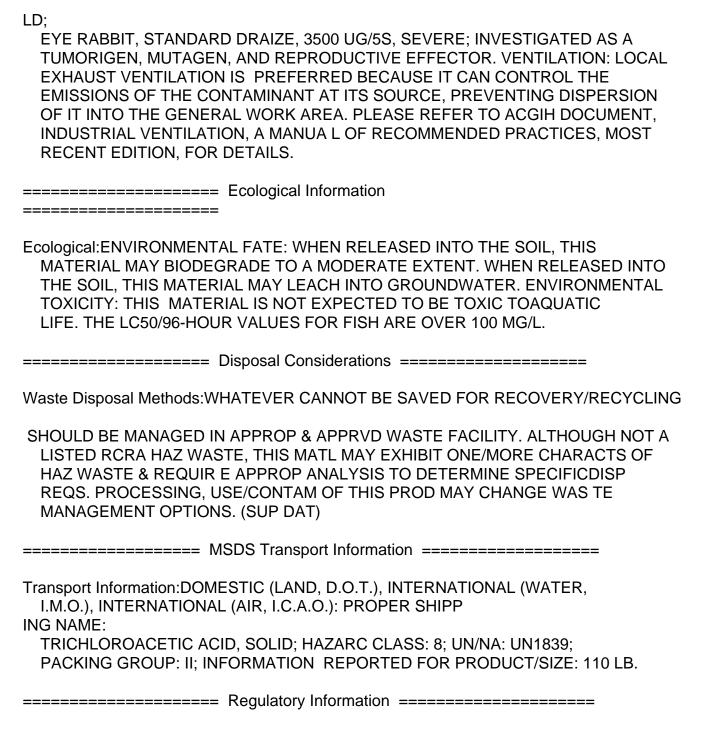
CARBONATE. ACID SOLUTIONS IN WATER CAN REACT WITH METALS TO LIBERATE HYDROGEN GAS.

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. SOLUTIONS ARE ACIDIC. HYGROSCOPIC. AVOID MOISTURE AND INCOMPATIBLES.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, CHLOROFORM, HYDROGEN CHLORIDE, PHOSGENE.

======= OXIC	cological	Information	=======================================
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Toxicological Information: SKIN RABBIT, STANDARD DRAIZE, 210 UG, MI



SARA Title III Information:THRICHLOROACETIC ACID (76-03-9): SARA 311/312: ACUTE: YES; CHRONIC: YES; FIRE: NO; PRESSURE: NO; REACTIVITY: NO (PURE/SOLID). SARA 302 RQ/TPQ: NO. SARA 313

Federal Regulatory Information:TRICHLOROACETIC ACID (76-03-9

LIST/CHEMICAL CATEGORY: NO.

): LISTED
IN TSCA, EC, JAPAN, AUSTRALIA, KOREA, CANADA DSL, THE PHILIPPINES.
NOT LISTED IN CANADA NDSL, CERCLA, RCRA 261.33, TSCA 8 (D),
CHEMICAL WEAPONS CONVENTION, TSCA 12 (B), CDTA. AUSTRALIAN HAZCHEM
CODE: 2R. WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE
HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND
THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.
State Regulatory Information:

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

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