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MALLINCKRODT BAKER, INC. -- SULFURIC ACID, 52-100% -- 6810-01-432-0063

Product ID:SULFURIC ACID, 52-100%

MSDS Date:09/24/1997

FSC:6810

NIIN:01-432-0063

Status Code:A

MSDS Number: CJFYH === 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

Emergency

Phone Num: (800) 424-9300

Resp. Party Other MSDS Num.:S8234 Preparer's Name:STRATEGIC SVC DIV 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

Company Name:PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535 Contract Num:SP045099MC721

CA

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

Ingred Name: SULFURIC ACID

CAS:7664-93-9

RTECS #:WS5600000 Minumum % Wt:52. Maxumum % Wt:100. OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3 ACGIH STEL:3 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:0.

Maxumum % Wt:48.

LD50 LC50 Mixture:LD50 ORAL RAT: 2140 MG/KG

Routes of Entry: Inhalation:YES

Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:INHALATION PRODUCES DAMAGING EFFECTS ON THE MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT. SWALLOWING CAN CAUSE SEVERE BURNS TO THE MOUTH, THROAT & STOMACH, LEADING TO DEATH. SKIN CONTACT MAY CAUSE REDNE SS, PAIN & SEVERE BURNS. EYE CONTACT CAN CAUSE BLURRED VISION, REDNESS, APIN & SEVERE BURNS, BLINDNESS. CHRONIC EXPOSURE TO MIST OR VAPORS MAY CAUSE DAMAGE TO TEETH

. CHRONIC EXPOSURE TO MISTS CONTAINI NG SUFURIC ACID IS A CANCER HAZARD.

Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID" AS A KNOWN HUMAN CARCINOGEN, (IARC CATAGORY 1). THIS CLASSIFICATION APPLIES TO MISTS CONTAINING SULFURIC ACID AND NOT TO SULFURIC ACID OR SULFURIC ACID SOLUTIONS.

Effects of Overexposure:INHALED-IRRITATION OF THE NOSE & THROAT, LABORED BREATHING,

LUNG EDEMA. INGESTION-BURNS TO MOUTH, THROAT &STOMACH, SORETHROAT, VOMITING, DIARRHEA, CIRCULATORY COLLAPSE WITH CLAMMY SKIN, WAEK RAPID PUL SE, SHALLOW RESPIRATIONS, SCANTY URINE. SKIN-REDNESS, PAIN, SEVERE BURNS, CIRCULATORY COLLAPSE WITH CLAMMY SKIN, WEAK/RAPID PULSE, SHALLOW RESPIRATIONS, SCANTY URINE. EYES-BLURRED VISION, REDNESS, PA IN, SEVERE TISSUE BURNS. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RES PIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.
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First Aid:INHALED-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. CALL PHYSICIAN IMMEDIATELY. INGESTED-DO NOT INDUCE VOMITING! GIVE ALRGE QUANTITIES OF WAT ER. NEVER ANYTHING BY MOUTH IF UNCONSCIOUS. CALL A PHYSICIAN IMMEDIATELY. SKIN-IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15
MINUTES WHILE REMOVING CONTAMINATED CLOTHES. EXCESS ACID ON SKIN CAN BE NEUT RALIZED WITH A 2% SOLUTION OF SODIUM BICARBONATE. CALL A PHYSICIAN IMMEDIATELY. EYES-IMMEDIATELY FLUSH WITH WATER, LIFING LIDS. CALL PHYSICIAN IMMEDIATELY.
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Extinguishing Media:DRY CHEMICAL, FOAM OR CARBON DIOXIDE. DO NOT USE WATER ON MATERIAL. HOWEVER, WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
Fire Fighti ng Procedures:IN THE EVENT OF FIRE, WEAR FULL PROTECTIVE
CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. STRUCTURA L FIREFIGHTER'S PROTECTIVE CLOTHING IS INEFFECTIVE FOR FIRES INVOLVING THIS MATERIAL. STAY AWAY FROM SEALED CONTAINERS.
Jnusual Fire/Explosion Hazard:CONCENTRATED MATERIAL IS A STRONG
DEHYDRATING AGENT REACTS WITH ORGANIC MATERIAL AND MAY CALISE

IGNITION OF

FINELY DIVIDED MATERIALS ON CONTACT.

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

Spill Release Procedures: VENTILATE AREA. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNECESSARY & UNPROTECTED PERSONNEL AWAY. CONTAIN & RECOVER WHEN POSSIBLE. NEUTRALIZE WITH ALKALINE MATERIAL (S ODA ASH, LIME) THEN ABSORB WITH INERT MATERIAL (VERMICULITE, DRY SAND) & PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS SUC

H AS SAWDUST. Neutralizing Agent:ALKALINE MATERIAL SUCH AS SODA ASH, LIME.
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Handling and Storage Precautions:STORE IN A DRY, VENTILATED STORAGE AREA WITH ACID RESISTANT FLOORS & GOOD DRAINAGE. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF DIRECT SUNLIGHT & AWAY FROM HEAT, WATER & INCOMPATIBLE MATERIALS. DO NOT W ASH OUT CONTAINER & USE FOR OTHER PURPOSES. Other Precautions:WHEN DILUTING, ADD SULFURIC ACID TO WATER.
WHEN OPENING METAL CONTAINERS, USE NON-SPARKING TOOLS BECAUSE OF POSSIBILITY OF HYDROGEN GAS BEING PRESENT. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (GAS, LIQUID). OBSERVE ALL WARNING & PRECAUTIONS LISTED ON THE PRODUCT.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:IF EXPOSURE LIMIT IS EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH ACID GAS CARTRIDGE & DUST/MIST FILTER MAY BE WORN
UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE AP PROPRIATE REGUALTORY AGENCY/RESPIRATOR SUPPLIER. FOR EMERGENCIES OR WHERE THE LEVELS ARE NOT KNOWN, USE A FULL-FACE, POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEES EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. Protective Gloves: WEAR IMPERVIOUS GLOVES.
Eye Protection:CHEMICAL SAFETY GOGGLES AND/OR A FULL F ACE SHIELD.
Other Protective Equipment:WEAR IMPERVIOUS PROTECTIVE CLOTHING INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO

PREVENT SKIN CONTACT. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING. DO NOT BREATH IST. DO NOT GET IN EYES, ON SKIN OR CLOTHES.

Supplemental Safety and Health

PRODUCT USE: LÁBORATORY REAGENT.

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

CC:C1 Boiling Pt:=290.C, 554.F

Decomp Temp:=340.C, 644.F

Vapor Pres:1@145.8C Vapor Density:3.4

Solubility in Water:MISCIBLE

Appearance and Odor:CLEAR OILY LIQUID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

WATER, POTASSIUM CHLORATE, POTASSIUM PERCHLORATE, POTASSIUM PERMANGANATE, SODIUM, LITHIUM, BASES, ORGANIC MATERIAL, HALOGENS, METAL ACETYLIDES, OXIDES AND HYDRIDES, METALS, STRONG OXIDIZING & REDUCING AG

ENTS & MANY OTHER RE

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. CONCENTRATED SOLUTIONS REACT VIOLENTLY WITH WATER, SPATTERING AND LIBERATING HEAT.

Hazardous Decomposition Products:THERMAL DECOMPOSITION:OXIDES OF SULFUR.WATER CONTACT:TOXIC & CORROSIVE FUMES.CARBONATE REACTION:CARBON DIOXIDE. CYANIDES & SULFIES REACTIONS POISONOUS HYDROGEN CYANIDE & HYDROGEN SULFIDE, RESPECTIVELY.

Conditions to Avoid Polymerization: HEAT, MOISTURE, INCOMPAT IBLES.

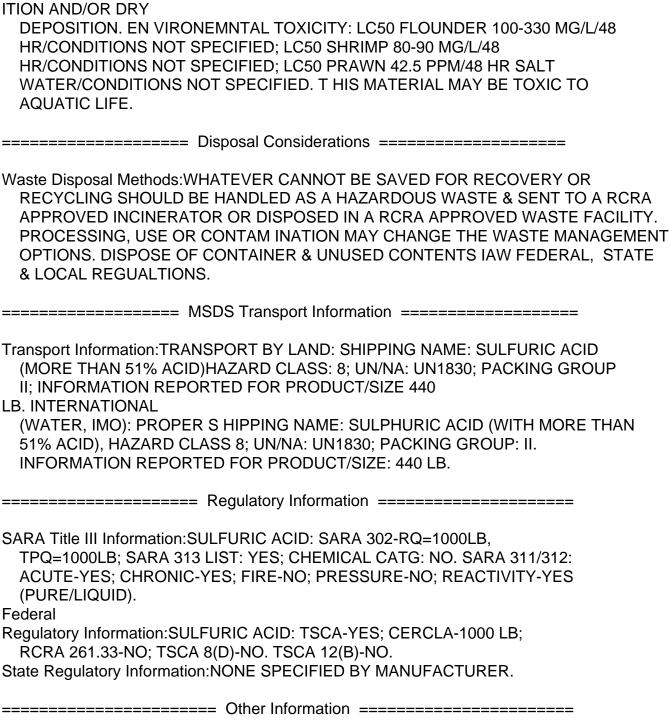
======== Toxicological Information ===========

Toxicological Information:ORAL RAT LD50: 2140 MG/KG; INHALATION RAT LC50: 510 MG/M3/2HR; STANDARD DRAIZE, EYE RABBIT, 250 UG (SEVERE); INVESTIGATED AS A TUMORIGEN, REPRODUCTIVE EFFECTOR. CANCER STATUS: THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID AS A KNWON HUMAN CARCINOGEN, (IARC CATEGORY 1). THIS CLASSIFICATION APPLI

ES ONLY TO MISTS CONTAINING SULFURIC ACID & NOT TO SULFURIC ACID OR SULFURIC ACID SOLUTIONS. SULFURIC ACID: NTP KNOWN: NO; NTP ANTICIPATED: NO; IARC CATAGORY: NONE. WATER: NTP KNOWN: NO; NTP ANTICIPATED: NO;IARC CATAGORY: NONE.

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

Ecological: ENVIRONEMNTAL FATE: WHEN RELEASED INTO THE SOIL, MAY LEACH INTO GROUNDWATER. WHEN RELEASED INTO THE AIR, MAY BE REMOVED FROM ATMOSPHERE TO A MODERATE EXTENT BY WET DEPOS



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