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MALLINCKRODT BAKER, INC. -- PHOSPHORUS AMORPHOUS -- 4460-00-875-4568

Product ID:PHOSPHORUS AMORPHOUS

MSDS Date:12/08/1996

FSC:4460

NIIN:00-875-4568 Status Code:A

MSDS Number: CJVPF === 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:908-859-2151

Resp. Party Other MSDS Num.:MSDS # P4017 J.T. BAKER: 9358 MALL: 6620

Preparer's Name:STRATEGIC SERVICES DIV

Chemtrec Ind/Phone:(800)424-9300

CAGE:70829

=== Contractor Identification ===

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Box:City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Phone:800-582-2537

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

Ingred Name:PHOSPHORUS

CAS:7723-14-0

RTECS #:TH3495000 Minumum % Wt:90.

Maxu

mum % Wt:100.

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3;0.02 PPM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE- INHALATION: MAY CAUSE
BRONCHITIS, LIVER OR KIDNEY IMPAIRMENT FROM YELLOW PHOSPHORUS.
INGESTION: RED PHOSPHORUS IS NOT READILY ABSORBED AND IS CONSIDERED
NON-POISONOUS. SOME YELLOW FORM MAY BE P RESENT WHICH COULD CAUSE

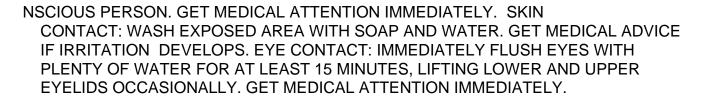
NING WITH IRRITATION. SKIN: WHITE PHOSPHORUS MAY CAUSE DEEP, SLOW HEALING BURNS. EYES: YELLOW PHOSPHORUS CAN CAUSE SEVERE IRRITATION & BURNS. CHRONIC INGESTION OR INH ALATION MAY INDUCE SYSTEMIC PHOSPHOROUS POISONING. LIVER DAMAGE, KIDNEY DAMAGE, JAW/TOOTH ABNORMALITIES, BLOOD DISORDERS AND CARDIOVASCULAR EFFECTS CAN RESULT. THE ESTIMATED LETHAL ADULT HUMAN DOSE FO R WHITE PHOSPHORUS IS 50-100 MG.

Effects of Overexposure:INHALATION: MAY CAUSE COUGHING IF CONTAMINATED WITH YELLOW PHOSPHORUS. INGESTION: NAUSEA, VOMITING, ABDOMINAL PAIN OR GARLIC ODOR ON BREATH. SKIN: RED PHOSPHORUS IS NOT HARMFUL TO SKIN. IF CONTAMINA TED WITH WHITE PHOSPHORUS, HOWEVER, CONTACT MAY CAUSE DEEP, SLOW HEALING BURNS. EYE CONTACT: RED PHOSPHOROUS CAUSES EYE IRRITATION. IF CONTAMINATED WITH YELLOW PHOSPHORUS, EYE CONTACT CAN CAUSE SEVERE IRRITATION AND BURNS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, J

AW/TOOTH ABNORMALITIES, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LAR GE QUANTITIES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCO



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

Autoignition Temp:=260.C, 500.F

Extinguishing Media:FLAMMABLE SOLID. MAY IGNITE FROM FRICTION OR ROUG H

HANDLING. WATER FLOODING FOLLOWED BY COVERING WITH WET SAND, CLAY, GROUND LIMESTONE UNTIL CLEAN-UP.

Fire Fighting Procedures:BURNING PHOSPHORUS PRODUCES IRRITATING BUT NOT HIGHLY TOXIC OXIDES. FLAME-RETARDENT FULL PROTECTIVE CLOTHING AND FULL BREATHING APPARATUS SHOULD BE WORN WITH PHOSPHORUS FIRES. THE RED FORM CAN CONVERT TO THE MORE READILY-FLAMMABLE YELLOW FORM AT HIGH TEMPERATURES.

Unusual Fire/Explosion Hazard:MAY FORM EXPLOSIVE MIXTURES WITH OXIDIZING MATERI

ALS. SENSITIVE TO STATIC DISCHARGE.

	Accidental	Release	Measures	
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Spill Release Procedures:MOISTEN THE SPILLED PHOSPHORUS AND KEEP IT UNDER WET SAND OR THE LIKE UNTIL IT CAN BE COLLECTED & PLACED IN A CLOSED CONTAINER. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. WEAR APPROPRIATE PERSONA L PROTECTIVE EQUIPMENT. SPILLS: CLEAN UP SPILLS IN A MANNER THAT DOES NOT DISPERSE DUST INTO THE AIR. REPORT SPILLS & RELEASES TO SOIL, WATER & AIR

IN EXCESS OF REPORTABLE QUANTITIES.

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Handling and Storage Precautions: KEEP IN A TIGHTLY CLOSED CONTAINER, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. PROTECT FROM LIGHT. AVOID DUST FORMATION AND CONTROL IGNITION SOURCES.

Other Precautions: EMPLOY GROUNDING, VENTING AND EXPLOSION RELIEF PROVISIONS IN ACCORD WITH ACCEPTED ENGINEERING PRACTICES

IN ANY

PROCESS CAPABLE OF GENERATING DUST &/OR STATIC ELECTRICITY. EMPTY ONLY INTO INERT OR NON- FLAMMABLE ATMOSPHERE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS EVEN WHEN EMPTY.

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

Respiratory Protection:PERSONAL RESPIRATORS (NIOSH APPROVED): FOR CONDITIONS OF USE WHERE EXPOSURE TO DUST OR MIST IS APPARENT, A HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN. FOR EMERGENCIES OR INSTANCES WHERE EXPOSURE LEVEL S

NOT KNOWN, USE FULL-FACE

POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DON'T PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

Ventilation: A SYSTEM OF LOCAL&/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES AS LOW AS POSSIBLE.

Protective Gloves:WEAR PROTECTIVE GLOVES.

Eye Protection: USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR PROTECTIVE GLOVES AND CLE

ΑN

BODY-COVERING CLOTHING.

Work Hygienic Practices: PRESENCE OF YELLOW PHOSPHORUS AS AN IMPURITY WILL CHANGE NECESSARY PROTECTIVE EQUIPMENT.

Supplemental Safety and Health

LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA.

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

HCC:F8

Spec Gravity:2.34 @ 20C/4C

Appearance and Odor:RED TO VIOLE

T POWDER, ODORLESS.

Percent Volatiles by Volume:@21C(70F):0

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

Stability Indicator/Materials to Avoid:YES

INCOMPATIBILITIES: HALOGENS, HALIDES, SULFUR, OXIDIZING MATERIALS AND ALKALIS (FORMS PHOSPHINE).

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. HEAT, FLAME, IGNITION SOURCES, SHOCK, FRICTION, INCOMPATIBLES.

Hazardous Decomposition Products:WHITE PHOSPHOROUS, OXIDES OF PHOSPH

OROUS, PHOSPHINE, AND PHOSPHORIC ACID (IF WATER IS PRESENT) MAY BE RELEASED IF THIS MATERIAL IS HEATED TO DECOMPOSITION. Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:NO LD50/LC50 INFORMATION FOUND RELATING TO NORMAL ROUTES OF OCCUPATIONAL EXPOSURE.
=========== Ecological Information =============
Ecological:NO INFORMATION FOUND.
========= Disposal Consid erations ====================================
Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WAST E MANAGEMENT OPTIONS. DISPOSE OF CONTAINER & UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE & LOC AL REQUIREMENTS.
========= MSDS Transport Information ============
Transport Information:PROPER SHIPPI NG NAME: PHOSPHORUS, AMORPHOUS, 4.1, UN1338, PG III.
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SARA Title III Information:SARA 311/312: ACUTE- YES, CHRONIC- YES, FIRE- YES, PRESSURE- NO. LISTED ON SARA 313. SARA 302, R1 1, TPQ 100. Federal Regulatory Information:TSCA: YES. EC: YES.
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