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PURITAN PRODUCTS INC -- METHYL ISOBUTYL KETONE -- 6810-00-052-1371

Product ID:METHYL ISOBUTYL KETONE

MSDS Date:03/31/1998

FSC:6810

NIIN:00-052-1371

MSDS Number: CJDTJ === Responsible Party ===

Company Name:PURITAN PRODUCTS INC

Address:2290 AVENUE A

City of DETAIL FLIEN

City:BETHLEHEM

State:PA ZIP:18017 Country:US

Emergency Phone Num:610-866-4225 Chemtrec Ind/Phone:(800)424-9300

CAGE :0TG10

=== Contractor Identification === Company Name:DALDEN CORP Address:2923 SATURN ST SUITE C

Box:City:BREA

State:CA ZIP:92821 Country:US

Phone:714-985-0117

Contract Num:SP0411-02-M-E670

CAGE:0EV88

Company Name: DALDEN CORP Address: 2923 SATURN ST SUITE C

Box:City:BREA

State:CA ZIP:92821 Country:US

Phone:714-985-0117

Contract Num:SP0450-99-M-CN26

CAGE:0EV88

Company Name: PURITAN PRODUCTS INC

Address:2290 AVENUE A Box:City:BETHLEHEM

State:PA ZIP:18017 Country:US

Phone:610-866-4225

CAGE:0TG10

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====== Composition/Information on Ingredients ========
Ingred Name:METHYL ISOBUTYL KETONE (HEXONE) (SARA 313) (CERCLA) CAS:108-10-1 RTECS #:SA9275000 Minumum % Wt:90. Maxumum % Wt:100. Other REC Limits:NONE RECOMMENDED OSHA PEL:100 PPM ACGIH TLV:50 PPM/75 STEL; 9596 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS
========== Hazards Identification ============
LD50 LC50 Mixture:TLV 50 PPM Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenic ity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS: EYES, SKIN, CNS, LIVER, KIDNEYS, LUNG. ACUTE - MAY CAUSE SEVERE EYE IRRITATION, IF SPLASHED INTO THE EYES. VAPORS ARE IRRITATING. SKIN CONTACT CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRR ITATION. HARMFUL IF INGESTED. ASPIRATION HAZARD. MAY CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION, ABDOMINAL PAIN. INHALATION OF HIGH CONCENTRATIONS MAY
CAUSE RESPIRATORY TRACT IRRITATION, CNS EFFECT S CHARACTER IZED BY DIZZINESS, HEADACHE, BREATHING DIFFICULTY, UNCONSCIOUSNESS, COMA, LOSS OF COORDINATION. CHRONIC - MAY CAUSE DERMATITIS. BASED ON ANIMAL STUDIES, CHRONIC EXPOSURE MAY AFFECT LIVER AN D KIDNEYS. Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS. Effects of Overexposure:SEVERE IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, DROWSINESS, COMA, EYE REDNESS, TEARNING, B
LURRED VISION, SKIN CRACKING, DEFATTING, DRYING, DERMATITIS, UNCONSCIOUSNESS, GENERAL WEAKNESS, PULM ONARY EDEMA, EXCITMENT, FATIGUE, DIARRHEA Medical Cond Aggravated by Exposure PERSONS WITH PRE-EXISTING SKIN

SKIN CRACKING, DEFATTING, DRYING, DERMATITIS, UNCONSCIOUSNESS, GENERAL WEAKNESS, PULM ONARY EDEMA, EXCITMENT, FATIGUE, DIARRHEA Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED CENTRAL NERVOUS SYSTEM, LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIS

T. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICAL RESPIRATION IF NOT BREATHING. IF BREATHING IS DIFFICULT, OXYGEN MAY BE GIVEN BY QUALIFIED PERSONNEL. EYE CONTACT: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH SOAP AND PLENTY OF WATER FOR AT LEAST 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMM EDIATELY. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO THE LUNGS. DO NOT GIVE

ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:CC Flash Point:=17.8C, 64.F

Autoignition Temp:=447.8C, 838.F

Lower Limits:1.2 Upper Limits:8.0

Extinguishing Media:DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE, WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL, DILUTE SPILLS TO NONFLAMMABLE MIXTURES, PROTECT PERSONNE

Fire Fighting Procedures:WEAR FULL PROTECT

IVE CLOTHING AND NIOSH

APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: VAPOR IS FLAMMABLE AND HEAVIER THAN AIR AND MAY TRAVEL TO SOURCE OF IGNITION AND FLASHBACK. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL TO REDUCE PRESSURE.

======== A	ccidental Release Measures	
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Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES

OF IGNITION. VENTILATE AREA. DO NOT WALK THROUGH SPILL; STOP SPILL IF POSSIBLE. USE A VAPOR SUPPRESSING FOAM TO REDUCE VAPORS. CONTAIN AND PICK UP WITH NON -FLAMMABLE ABSORBENT SUCH AS SAND, VERMICULITE. GROUND ALL HANDLING EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS, CONFINED SPACES.

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

Handling and Storage Precautions:STORE IN WELL VENTILATED AREA. STORE IN COOL PLACE. KEEP CONTAINER TIGHTLY

CLOSED. STORE IN ACCORDANCE

WITH NATIONAL FIRE PROTECTION ASSOCIATION REGULATIONS. KEEP AWAY FROM DIRECT SUNLIGHT, IGNITION S OURCES, AND INCOMPATIBLE MATERIALS. CONTAINERS SHOULD BE BOUNDED AND GROUNDED FOR TRANSFERS.

Other Precautions:FLAMMABLE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUES (VAPORS, LIQUID, AND/OR SOLID) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER OR DRILL. KEEP OUT OF REACH OF CHILDREN. AVOID BREA THING VAPORS. DO NOT GET IN EYE, ON S

KIN OR ON

CLOTHING.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF TLV IS EXCEEDED/FOR SYMPTOMS OF OVEREXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR UP TO 50 X OF TLV. IN EMERGENCY/CONFINED SPACES, WEAR A NIOSH-APPROVED POSITIVE-PR ESSURE SELF-CONTAINED BREATHING APPARATUS OR A FRESH-AIR SUPPLYING RESPIRATOR. AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

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entilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: POLYVINYL ALCOHOL (PVA)

Eye Protection: SPLASH PROOF SAFETY GOGGLES WITH FACESHIELD

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BE FORE EATING,

DRINKING OR SMOKING.

Supplemental Safety and Health

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

HCC:F2

Boiling Pt:=117.2C, 243.F Melt/Freeze Pt:=-85.C, -121.F

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:16 @20C Vapor Density:3.5(AIR=1) Spec Gravity:0.80 @ 20C

Viscosity:NP

Evaporation Rate & Reference: 5.6 (BUTYL ACETATE = 1)

Solubility in Water:MODERATE

Appearance and Odor: CLEAR COLORLESS LIQUID. SLIGHT CAMPHOR ODOR

Percent Volatiles by Volume:10

0 @ 21C
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES ALDEHYDES, NITRIC ACID, PERCHLORIC ACID, STRONG OXIDIZERS, POTASSIUM-TERT-BUTOXIDE Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS OF USE & STORAGE. MAY FORM EXPLOSIVE PEROXIDES IN AIR. HEAT, FLAME, OTHER IGNITION SOURCES, AIR, INCOMPATIBLES. Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE, CARBON DIOXIDE.
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Toxicological Information:ORAL RAT LD50: 2080 MG/KG; SKIN RABBIT >>20 ML/KG; IRRITATION EYE RABBIT, STANDARD DRAIZE, 40 MG SEVERE; INVESTIGATED AS A REPRODUCTIVE EFFECTOR.
======== Ecological Information ==========
Ecological:WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY BIODEGRADE TO A MODERATE EXTENT. WHEN RELEASED INTO THE SOIL, THIS MATERIAL MY LEACH INTO GROUNDWATER. WHEN RELEASED INTO THE SOIL, THIS MATERIAL
MAY EVA PORATE TO A MODERATE EXTENT. WHEN RELEASED INTO WATER, THIS MATERIAL MAY EVAPORATE TO A MODERATE EXTENT. THIS MATERIAL HAS AN ESTIMATED BIOCONCENTRATION FACTOR (BCF) OF LESS THAN 100. THIS MATERIAL IS NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE. WHEN RELEASED INTO THE AIR, THIS MATERIAL IS EXPECTED TO BE READILY DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCED HYDROXYL RADICALS. WHEN RELEASED IN THE AIR, THIS MATERIAL IS EXPECTED TO
======= Di sposal Considerations ===========
Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE. DISPOSE OF WASTE I ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. DISPOSE OF CONTAINER AND UN USED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

======== MSDS Transport Information ==========

Transport Information: DOMESTIC (LAND, D.O.T.) PROPER SHIPPING NAME:

METHYL ISOBUTYL KETONE. HAZARD CLASS: 3 UN/NA: UN1245 PACKING GROUP: II INFORMATION REPORTED FOR PRODUCT/SIZE: 370LBS

======== Regulatory Information ===========

SARA Title III Information:LISTED

Federal Regulatory Information:LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY LIST. CERCLA RQ: 5000 LBS; U161

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