

MALLINCKRODT BAKER, INC. (FORMERLY J.T. BAKER INC) -- KEROSENE (LOW ORDER) --  
6685-00-641-3580

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

Product ID:KEROSENE (LOW ORDER)  
MSDS Date:02/23/2001  
FSC:6685  
NIIN:00-641-3580  
Status Code:A  
MSDS Number: CLMHF  
=== Responsible Party ===  
Company Name:MALLINCKRODT BAKER, INC. (FORMERLY J.T. BAKER INC)  
Address:222 RED SCHOOL LANE  
City:PHILLIPSBURG  
State:NJ  
ZIP:08865-2219  
Country:US  
Info Phone Num:800-582-2537  
Emergency Phone Num:9  
08-859-2151  
Resp. Party Other MSDS Num.: K2175  
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:PARA SCIENTIFIC COMPANY  
Address:297 CEDAR LANE (TYBURN & CEDAR LN)  
Box:City:FAIRLESS HILLS  
State:PA  
ZIP:19030-4601  
Country:US  
Phone:215-736-0225  
Contract Num:SP0440-01-C-0963  
CAGE:6N297

===== Composition

/Information on Ingredients =====

Ingred Name:KEROSENE

CAS:8008-20-6

RTECS #:OA5500000

Minumum % Wt:90.

Maxumum % Wt:100.

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

LD50 LC50 Mixture:NOT PROVIDED BY MFR

Reports of Carcinogenicity:NTP:NO IARC:NO

Health Hazards Acute and Chronic:EMERGENCY OVERVIEW: DANGER ! HARMFUL  
OR FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION TO  
SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.  
F

LAMMABLE LIQUID, AND VAPOR. INH ALATION: CAUSES IRRITATION TO  
RESPIRATORY TRACT. INGESTION: CAUSES IRRITATION TO THE  
GASTROINTESTINAL TRACT. A POTENTIAL ASPIRATION HAZARD IF SWALLOWED.  
MAY CAUSE DAMAGE TO THE LUNGS. SYMPTOMS MAY PAR ALLEL INHALATION  
EXPOSURE. SKIN CONTACT: CAUSES IRRITATION TO SKIN. EYE CONTACT: MAY  
CAUSE SEVERE IRRITATION AND PAIN. CHRONIC: NO INFORMATION FOUND

Explanation of Carcinogenicity:NTP: KEROSENE IS NOT A KNOWN OR  
ANTICIPATED CARCINOGEN. IARC: N  
OT LISTED AS A CARCINOGEN.

Effects of Overexposure:INHALATION: SYMPTOMS MAY INCLUDE COUGHING,  
SHORTNESS OF BREATH, BURNING SENSATION IN CHEST, HEADACHE, NAUSEA,  
WEAKNESS, RESTLESSNESS AND INCOORDINATION, DROWSINESS, AND COMA.  
INGESTION: SYMPTOMS MAY I NCLUDE NAUSEA, VOMITING, AND DIARRHEA. A  
POTENTIAL ASPIRATION HAZARD IF SWALLOWED. MAY CAUSE DAMAGE TO THE  
LUNGS. SYMPTOMS MAY PARALLEL INHALATION EXPOSURE. SKIN: SYMPTOMS  
INCLUDE REDNESS, ITCHING, AN D PAIN. MAY CAUSE DERM

ATITIS. EYE

CONTACT: IRRITATION, AND PAIN.

Medical Cond Aggravated by Exposure:NO INFORMATION FOUND.

===== First Aid Measures =====

First Aid:INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE  
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET  
MEDICAL ATTENTION. INGESTION: ASPIRATION HAZARD. DO NOT INDUCE  
VOMITING. IF VO MITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT  
ASPIRATION INTO LUNGS. NEVER GIVE ANYTHING BY MOU

TH TO AN

UNCONSCIOUS PERSON. CALL A PHYSICIAN. SKIN: FLUSH WITH SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. CLEAN SHOES BEFORE REUSE. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY . GET MEDICAL ATTENTION.

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

Flash Point Method:CC

Flash Point:=37.8C, 100.F

Autoignition Temp:=210.C, 410.F

Lower Limits:0.7

Upper Limits:5.0

Extinguishing Media:DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER SPRAY MAY BE USED 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 THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:SEALED CONTAINERS MAY RUPTURE WHEN HEATED. ABOVE THE FLASH POINT, EXPLOSIVE

VAPOR-AIR MIXTURES MAY BE

FORMED. VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION SOURCE AND FLASH BACK. FLAMMABLE LIQUID AND VAPOR ! CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

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

Spill Release Procedures:VENTILATE AREA. REMOVE SOURCES OF IGNITION.

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. CONTAIN AND RECOVER LIQUID. USE NON-SPARKING TOOLS AND EQUIPMENT. COLLECT LIQUID IN

APPROPRIATE CONTAINER OR ABSORB WITH

AN INERT, NON-COMBUSTIBLE MATERIAL (VERMICULITE, DRY SAND, EARTH) AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER. (CONTD. SEE "TOXICOLOGICAL")

Neutralizing Agent:NOT PROVIDED BY MFR

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE FIRE HAZARD MAY BE ACUTE. OUTSIDE

OR DETACHED STORAGE IS PREFERRED.

SEPARATE FROM INCOMPATIBLE S. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS. (CONTD. BELOW)

Other Precautions:(CONTD. FROM ABOVE) STORAGE AND USE AREAS SHOULD BE NO SMOKING AREAS. USE NON-SPARKING TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. EMPTY CONTAINERS OF THIS MATERIAL RETAIN PRODUCT RESIDUES (VAPORS, LIQUIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT. DO NOT (CONTD.

SEE

"ECOLOGICAL")

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

Respiratory Protection:FOR CONDITIONS OF USE WHERE EXPOSURE TO THE SUBSTANCE IS APPARENT, CONSULT AN INDUSTRIAL HYGIENIST. FOR EMERGENCIES, OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEPIECE POSITIVE -PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

Ventilation:DILUTION VENTILATION I

S SATISFACTORY HEALTH HAZARD CONTROL.

IF CONDITIONS OF USE CREATE DISCOMFORT TO THE WORKER, A LOCAL EXHAUST SYSTEM SHOULD BE CONSIDERED.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:USE CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE SPLASHING POSSIBLE.

Other Protective Equipment:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS AS APPROPRIATE, TO P

REVENT SKIN CONTACT.

Work Hygienic Practices:NOT PROVIDED BY MFR

Supplemental Safety and Health

NOT PROVIDED BY MFR

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

HCC:F4

Boiling Pt:=175.C, 347.F

B.P. Text:175 - 325C (347 - 617F

Melt/Freeze Pt:M.P/F.P Text:NO INFORMATION FOUND

Decomp Temp:Decomp Text:NOT PROVIDED BY MFR

Vapor Pres:1 MM HG @ 20C (68F)

Vapor Density:4.5 (AIR=1

Spec Gravity:0.80

pH:NO INFORMATION

Viscosity:NOT PROVIDED BY MFR

Evaporation Rate & Reference:

NO INFORMATION FOUND

Solubility in Water:INSOLUBLE

Appearance and Odor:PALE YELLOW OR WATER-WHITE, MOBILE, OILY LIQUID.  
ODORLESS

Percent Volatiles by Volume:NO INFORMATI

Corrosion Rate:NOT PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Stability Condition to Avoid:HEAT, FLAMES, IGNITION SOURCES AND

INCOMPATIBLES. STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

Hazardous Decomposition

Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY  
FORM WHEN HEATED TO DECOMPOSITION.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:KEROSENE IRRITATION DATA (STD DRAIZE): SKIN,  
RABBIT, 500 MG, SEVERE. INVESTIGATED AS A TUMORIGEN AND MUTAGEN.

CANCERLISTS:KEROSENE (8008-20-6); NTP CARCINOGEN: KNOWN: NO;

ANTICIPATED: NO; IARC CATEGO RY: NONE. (CONTD. FROM "SPILL /  
RELEASE") IF A LEA

K OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO

DISPERSE THE VAPORS, TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK,  
AND TO FLUSH SPILLS AWAY FROM EXPOSU RES. J.T. BAKER SOLUSORB  
SOLVENT ADSORBENT IS RECOMMENDED FOR SPILLS OF THIS PRODUCT.

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

Ecological:ENVIRONMENTAL FATE: RELEASED TO SOIL, PRODUCT MAY:

BIODEGRADE TO MODERATE EXTENT; EVAPORATE TO MODERATE EXTENT. WHEN  
RELEASED INTO WATER, PRODUCT MAY: BIODEGRADE

TO MODERATE EXTENT;

BIOACCUMULATE TO SOME EXTENT. WHEN RELEASED INTO AIR, PRODUCT MAY:  
MODERATELY DEGRADE BY REACTION WITH PHOTOCHEMICALLY PRODUCED  
HYDROXYL RADICALS. (CONTD. FROM "OTHER PRECAUTIONS") ATTEMPT TO  
CLEAN EMPTY CONTAINERS SINCE RESIDUE DIFFICULT TO REMOVE. DO NOT  
PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, EXPOSE SUCH  
CONTAINERS TO HEAT, SPARKS, FLAME, STATIC ELECTRICITY, OTHER  
SOURCES OF IGNITION: THEY MAY EXPL ODE AND CAUSE INJURY OR DEATH.

===== Disposal Considerations =====

Waste Disposal Methods: EXCESS SPILL SHOULD BE HANDLED AS HAZARDOUS WASTE. SEND TO A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE, LOCAL, REQUIREMENTS.

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

Transport Information: DOMESTIC (LAND, D.O.T.): PSN: KEROSENE; CLASS: 3; UN 1223; PKG: III; INFORMATION REPORTED FOR PRODUCT SIZE: 20L. INTERNATIONAL (WATER, I.M.O.): PSN: KEROSENE; CLASS: 3.3; UN 1223; PKG: III; INFORMATION REPORTED FOR PRODUCT / SIZE: 20L. INTERNATIONAL (AIR, I.C.A.O.): PSN: KEROSENE; CLASS: 3; UN 1223; PKG: III; INFORMATION REPORTED FOR PRODUCT / SIZE: 20L.

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

SARA Title III Information: FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1: KEROSENE (8008-20-6): SARA 302, RQ: NO; SARA 302, TPQ: NO; SARA 313, LIST: NO; SARA 313, CHEMICAL CATG.: NO. FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2: KEROSENE (8008-20-6): CERCLA: NO; RCRA 261.33: NO; TSCA 8 (D): NO. SARA 311 / 312: ACUTE: YES; CHRONIC: NO; FIRE: YES; PRESSURE: NO; REACTIVITY: NO. (PURE / LIQUID)

Federal Regulatory Information: CHEMICAL INVENTORY STATUS - PART 1: KEROSENE (8008-20-6): TSCA: YES; EC: YES; JAPAN: NO; AUSTRALIA: YES. CHEMICAL INVENTORY STATUS - PART 2: KEROSENE (8008-20-6): KOREA: YES; CANADA DSL: YES; CANADA N DSL: NO PHIL.: YES. CHEMICAL WEAPONS CONVENTION: NO; TSCA 12 (B): NO CDTA: NO.

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

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