

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:908-859-2151

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

Con

tract 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, E  
YES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.  
FLAMMABLE 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:NT

P: KEROSENE IS NOT A KNOWN OR  
ANTICIPATED CARCINOGEN. IARC: NOT 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 DERMATITIS. 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 MOUTH 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 RESI DUES (VAPORS, LIQUIDS); OBSERVE ALL WA  
RNINGS  
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 IS 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 BOO

TS, GLOVES, LAB COAT, APRON OR COVERALLS AS  
APPROPRIATE, TO PREVENT 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 INFORMATIO

N

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; I

ARC CATEGORY: NONE. (CONTD. FROM "SPILL /  
RELEASE") IF A LEAK 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 EXPOSURE. 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  
S

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 REGUL ATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACC ORDANCE WITH FEDERAL , STATE, LOCAL, REQUIREMENTS.

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

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

Disclaimer (provided with this information by the compiling agencies):  
This information i

s formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.