Product ID:9084, 2-PROPANOL MSDS Date:04/10/1990 FSC:6810 NIIN:00-300-6123 **MSDS Number: BPHKY** === Responsible Party === Company Name: 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:201-859-2151;800-424-9300(CHEMTREC) CAGE:DO803 === Contractor Identification === Company Name: J T BAKER INC Address:222 RED SCHOOL LANE City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:1-800-582-2537 CAGE:DO803 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

Ingred Name:ISOPROPYL ALCOHOL;(ISOPROPANOL) (SARA III) CAS:67-63-0 RTECS #:NT8050000 Fraction by Wt : 99-100% OSHA PEL:400 PPM;500 STEL ACGIH TLV:400 PPM;500 STEL

LD50 LC50 Mixture:LD50:(ORAL RAT)5840 MG/KG. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHAL:IRRITATION OF NOSE AND THROAT, HEADACHE, NAUSEA, DIZZINESS, DROWSINESS, IRRITATION OF UPPER RESIRATORY TRACT, NARCOSIS, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFIC ULT BREATHING, PULMONARY EDEMA, U NCONSCIOUSNESS. SKIN: IRRITATION, PROLONGED CONTACT MAY CAUSE DERMATITIS. RAPID ABSORPTION. EYE: (EFTS OF OVEREXPOSURE) Explanation of Carcinogenicity:NOT RELEVANT. Effects of Overexposure: HLTH HAZ: IRRITATION, MAY CAUSE CORNEAL DAMAGE. INGEST: HEADACHE, NAUSEA, VOMITING, DIZZINESS, GASTROINTESTINAL IRRITATION, NARCOSIS, CENTRAL NERVOUS SYSTEM DEPRESSION, UNCONSCIOUSNESS. CHRONIC:NONE IDE NTIFIED. TARGET ORGANS:EYE, SKIN, **RESPIRATORY SYSTEM,** LUNGS, CNS.

Medical Cond Aggravated by Exposure:SKIN DISORDERS, EYE DISORDERS, RESPIRATORY SYSTEM DISEASE.

First Aid:INGEST:CALL MD. IF SWALLOWED, IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. INDUCE VOMITING. INHAL:MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. S KIN:IMMEDIATELY FLUSH W/PLENTY OF WATERFOR AT LEAST 15 MINUTES WHILE REMOVING CONTAM CLTHG/ SHOES. WASH CLTHG BEFORE

REUSE. EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

Flash Point Method:CC Flash Point:51.8F,11.0C Lower Limits:2% Upper Limits:12% Extinguishing Media:USE ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE. Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE W/OUT RISK. USE WATER TO KEEP FIRE EXPOSED CNTNRS COOL. Unusual Fire/Explosion Hazard:VAPS MAY FLOW ALONG SURFS TO DISTANT IGNIT SOURCES & FLASH BACK. CLSD CNTNRS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

Spill Release Procedures:WEAR SUITABLE PROT CLTHG. SHUT OFF IGNIT SOURCES; NO FLARES, SMKNG, OR FLAMES IN AREA. STOP LEAK IF YOU CAN DO SO W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. TAKE UP W/SAND OR

OTHER NON-COMBUST ABSORB MATL & PLACE IN CNTNR FOR LATER DISP. (SUPP DATA)

Neutralizing Agent: J.T. BAKER SOLUSORB SOLVENT ABSORBENT IS RECOMMENDED FOR SPILLS.

Handling and Storage Precautions: KEEP CNTNR CLOSED. STORE IN COOL, DRY, WELL-VENT, FLAMM LIQUID STORAGE AREA. DO NOT STORE NEAR OXIDIZING MATLS. KEEP AWAY FROM HEAT/SPARKS/FLAME.

Other Precautions: BOND AND GROUND ALL CONTAINERS WHEN TRAN SFERRING

LIQUID. AVOID CONTACT W/EYES, SKIN, CLOTHING. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE VENTILATION. AVOID BRTHG VAP. PROVIDE PREPLACEMENT & PERIODIC MEDICAL EXAMS WITH (SUPP DATA)

Respiratory Protection:ALL RESPS MUST BE NIOSH/MSHA APPRVD. RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 1000 PPM, CHEMICAL CARTRIDGE RESP W/ORGANIC VAPOR

CARTRIDGE IS REC. ABOVE THIS LEVEL, A SCBA IS RECOMMENDED.

Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS. VENT HOOD.

Protective Gloves:NEOPRENE GLOVES.

Eye Protection: CHEMICAL WORKERS GOGGLES .

Other Protective Equipment: UNIFORM AND APRON, LAB COAT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

MATLS TO AVOID: AMINES AND AMMONIA, ALDEHYDES. SPILL PROC: FLUSH AREA WITH WATER. DO NOT ALLOW SPILL TO ENTER DRAINS OR SEWE

R SYSTEM. OTHER PREC:EMPHASIS ON SKIN, SINUSES AND RESPIRATORY SYSTEM.

Boiling Pt:B.P. Text:180F,82C Melt/Freeze Pt:M.P/F.P Text:-128F,-89C Vapor Pres:33 @ 20C Vapor Density:2.1 Spec Gravity:0.79 (H*2O=1) Evaporation Rate & amp; Reference:2.5 (BUTYL ACETATE=1) Solubility in Water:COMPLETE (100%) Appearance and Odor:CLEAR, COLORLESS LIQUID WITH ALCOHOL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ALUMINUM, STRONG ACIDS, NITRIC ACID, SULFURIC ACID, HALOGENS, ACTIVE HALOGEN CMPDS, (SUPP DATA)
Stability Condition to Avoid:HEAT, FLAME, OTHER SOURCES OF IGNITION.
Hazardous Decomposition Products:CO, CO*2.

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULA TIONS.

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