

J.T.BAKER CHEMICAL CO. -- 9229 ALCOHOL, ANHYDROUS -- 6810-01-327-7088

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Product Identification  
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Product ID:9229 ALCOHOL, ANHYDROUS

MSDS Date:06/25/1994

FSC:6810

NIIN:01-327-7088

MSDS Number: BJZZW

=== Responsible Party ===

Company Name:J.T.BAKER CHEMICAL CO.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Info Phone Num:201-859-2151

Emergency Phone Num:20

1-859-2151/908-859-2151

CAGE:DO870

=== Contractor Identification ===

Company Name:J.T.BAKER CHEMICAL CO.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ

ZIP:08865-2219

Country:US

Phone:201-859-2151

CAGE:DO870

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:VWR SCIENTIFIC - DIV OF UNIVAR

Address:200 CENTER SQUARE RD

Box:626

City:BRIDGEPORT

State:NJ

ZIP:08014

Country:US

Phone:60

9-467-2600  
CAGE:2E624

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Composition/Information on Ingredients  
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Ingred Name:ETHYL ALCOHOL (ETHANOL)  
CAS:64-17-5  
RTECS #:KQ6300000  
Fraction by Wt: 90-95%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9394

Ingred Name:ISOPROPYL ALCOHOL (SARA III)  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM  
ACGIH TLV:400 PPM/500STEL;9394

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)  
CAS:67-56-1  
RTECS  
#:PC1400000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:S,200PPM  
ACGIH TLV:S,200PPM/250STEL; 94  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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Hazards Identification  
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LD50 LC50 Mixture:LD50 ORAL RAT 7060 MG/KG (ETHANOL)  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:CNS DISTURBANCES,SKIN  
IRRITATION,DERMATITIS,EYE IRRITATION,GASTROIN  
TESTINAL  
IRRITATION,UPPER RESPIRATORY TRACT IRRITATION.CHRONIC:DAMAGE TO  
LIVER,KIDNEYS,EYES,LUNGS,CENTRAL NERVOUS SYSTEM,BRAIN,  
SPLEEN,BLOOD.TARGET  
ORGANS:LUNGS,KIDNEYS,LIVER,BLOOD,EYES,SKIN,CNS,BRAIN,SPLEEN,HEART,S  
TOMACH,GI TRACTT.  
Explanation of Carcinogenicity:NOT CURRENTLY CLASSIFIED AS CARCINOGENIC  
BY NTP,IARC OR OSHA.HOWEVER,ETHANOL HAS BEEN LINKED TO CANCER IN  
HUMANS PER MFR  
Effects of Overexposure:HEADACHE, NAUSEA, VOMITING, DIZZINESS,  
DROWSINESS, IRRITAT

ION OF UPER RESPIRATORY TRACT, UNCONSCIOUSNESS, IRRITATION OF MUCOUS MEMBRANES, SKIN IRRITATION/DERMATITIS, EYE IRRITATION, GASTROINTESTINAL I RRRITATION, RESPIRATORY FAILURE, CENTRALNERVOUS SYSTEM DEPRESSION, CONVULSIONS, BLINDNESS, MAY BE FAATAL.

Medical Cond Aggravated by Exposure:LIVER DISORDERS, SKIN DISORDERS, CHRONIC IRRITATION OF MUCOUS MEMBRANES

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

First Aid:INGESTION: CALL A PHYSICIAN. IF CONSCIOUS, GIVE LARGE AMOUNTS OF WATER. INDUCE VOMITING. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SKIN: FLUSH SKIN WITH WATER. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

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

Flash Point Method:CC  
Flash Point:55.0F,12.8C  
Autoignition Temp:Autoignition Temp Text:685F  
Lower Limits:3.3 %  
Upper Limits:19.0 %  
Extinguishing Me  
dia:USE ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.  
WATER MAY BE INEFFECTIVE.  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK. CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE.

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

Spill  
Release Procedures:WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING OR FLAMES IN AREA. STOP LEAK IF CAN DO SO WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTIL

ATED, FLAMMABLE LIQUID STORAGE AREA OR CABINET.

Other Precautions: BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID. KEEP AWAY FROM STRONG OXIDIZERS. ENVIRONMENTAL DATA: SARA III, ACUTE/CHRONIC/FLAMMABILITY; EHS-NO; CERCLA HAZARDOUS SUBSTANCE/YES/METHANOL(RQ=5000 LB S); SEE SUPPLEMENTAL FOR REST OF INFO.

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

Respiratory Protection: NOT NORMALLY REQUIRED. IF AIRBORNE CONCENTRATION IS HIGH, A CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. IF CONCENTRATION EXCEEDS CAPACITY OF CARTRIDGE, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

Ventilation: USE EXPLOSION-PROOF GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves: NEOPRENE

Eye Protection: SAFETY GOGGLES AND FACE SHIELD

Other Protective Equipment: UNIFORM, PROTECTIVE SUIT, EMERGENCY EYEWASH STATION AND SHOWER

Work Hygienic Practices: WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

PROVIDE PERIODIC MEDICAL EXAMINATIONS WITH EMPHASIS ON LUNGS, SKIN RESPIRATORY SYSTEM AND LIVER. ENVIRONMENTAL CONTINUED: SARA 313, CONTAINS ISOPROPYL ALCOHOL & METHANOL; TSCA INVENTORY, YES. MSDS PRESENTED BY CAGE 70829 FOR CONTRACT NUMBER SP0450-95-M8249.

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

HCC: F2

Boiling Pt: B.P. Text: 172F, 78C

Melt/Freeze Pt: M.P/F.P Text: -173F, -114C

Vapor Pressure

res: 44 MM HG

Vapor Density: 1.6

Spec Gravity: 0.79

Evaporation Rate & Reference: 2.7 (BUTYL ACETATE = 1)

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, COLORLESS LIQUID, PLEASANT ODOR (ODOR THRESHOLD 1000 PPM).

Percent Volatiles by Volume: 100 %

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

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, ALUMINUM, ALKALI METALS, ACETYL CHLORIDE, STRONG ACIDS, ACID CHLORIDES, ACID ANHYDRIDES, REDUCING AGENTS.

Stability

ty Condition to Avoid:HEAT, FLAME, OTHER SOURCES OF IGNITION,  
SUNLIGHT, ULTRAVIOLET LIGHT

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL ENVIRONMENTAL REGULATIONS. EPA/RCRA WASTE NUMBER D001 MAY  
APPLY TO UNUED/UNCONTAMINATED PRODUCT.

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