

MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION -- BUTYL ALCOHOL,NORMAL --  
6810-00-281-6928

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

Product ID:BUTYL ALCOHOL,NORMAL

MSDS Date:01/01/1987

FSC:6810

NIIN:00-281-6928

MSDS Number: BDTBP

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:N-BUTYL ALCOHOL (SARA III)

CAS:71-36-3

RTECS #:EO1400000

Fraction by Wt: >99%

OSHA PEL:100 PPM

ACGIH TLV:S, C 50 PPM; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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==== Hazards Identification =====

Effects of Overexposure:INH:MAY IRRIT,NOSE/THROAT;ING:MAY CAUSE  
NAUSEA,DIARRHEA,VOMIT;SKIN:DEMATITIS;EYES:IRRIT,BLURRD VISN.

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

First Aid:INHAL:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NEEDED;INGEST:IF  
SWALLOWED,GIVE TWO GLASSES OF WATER & INDUCE VOMIT.NOTHING BY MOUTH  
IF UNCON;SKIN/EYE EXPOSURE:RMV CONTMNTD CLOTHG.WASH SKIN W/SOAP &  
H\*2O .FLUSH SKIN/EYES W/L  
G H\*2O;GET MED HELPIIMMEDIATLY

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

Flash Point:29C(84F)-C.C

Lower Limits:1.4

Upper Limits:11.3

Extinguishing Media:WATER,DRY CHEM,FOAM,CO\*2;WATER SPRAY:TO KEEP EXPD  
CANS COOL

Fire Fighting Procedures:USE H\*20 TO COOL EXPD CONTRS. USE SCBA & FULL  
PROT.CLTHG.

Unusual Fire/Explosion Hazard:ABOVE FLASH POINT,VAP-AIR MIXTURES ARE  
EXPLOSIVE WITHIN FLAMMABLE LIMITS; AUTO IGN TEMP:

==== Accidental Release Meas  
ures =====

Spill Release Procedures:RMV IGN SOURCES.VENT AREA.USE RESP PROTCTION &  
PROTCTV CLOTHG.KEEP OUT OF SURF H\*2O,SEWRS/CONFND AREAS;SM  
SPILL:ABSORB W/PAPER TOWELS.EVAP UNDER FUME HOOD THEN BURN  
CAREFULLY;LG SPILL:DIKE AREA.CONTAI N & RECOVER SPILL IF POSS;SHOVL  
RESDUE INTO DRUMS.

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

Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTAINERS AT  
COOL, DRY, VENTILATED PLACE. PROTECT  
AGAINST PHYSICAL DAMAGE.

Other Precautions:AVOID BREATHING DUST. USE W/ADEQUATE VENTILATION.  
KEEP CONTAINERS CLOSED. WASH THOROUGHLY AFTER HANDLING. AVOID SKIN,  
EYES & CLOTHING CONTACT.

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

Respiratory Protection:SUPPLIED AIR RESPIR/SCBA; ESCAPE: GAS MASK

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY

SHOWER,EYE

WASH STATION

Supplemental Safety and Health

MSDS FROM MFR DATED:JAN 1985 CONFORMS TO OSHA HAZ COMM STD.

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

HCC:F3

Boiling Pt.=117.8C, 244.F

Vapor Pres:5

Vapor Density:2.6

Spec Gravity:0.8

Evaporation Rate & Reference:0.46(BU-ACETATE=1)

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR,COLORLESS LIQUID.ODOR LIKE FUEL OIL BUT WEAK

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

Stability

Indicator/Materials to Avoid:YES

OXIDIZERS;ALUMINUM,CHROMIUM TRIOXIDE.

Stability Condition to Avoid:HEAT, IGNITION SOURCES

Hazardous Decomposition Products:CO,CO\*2 WHEN HEATED TO DECOMPOSITION

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

Waste Disposal Methods:COLLECT SPILLS & ATOMIZE IN A RCRA-APPROVED  
COMBUSTION CHAMBER EQUIPPED W/AFTER-BURNER & SCRUBBER SYSTEM,OR  
ABSORB IN VERMICULITE,DRY SAND,OR OTHER SIMILAR MATL FOR DISPOSAL  
AS HAZARD WASTE IN AN APPR  
OVED RCRA FACILITY I/A/W LOCAL,STATE &  
FED REGS.

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