

132601  
DOD Hazardous Materials Information System

DoD 6050.5-L

AS OF July 1998

FSC: 6810  
NIIN: 004602091  
Manufacturer's CAGE: 1B464  
Part No. Indicator: A  
Part Number/Trade Name: TERT-BUTANOL

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General Information

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Item Name: TERT-BUTYL ALCOHOL, REAGENT  
Company's Name: FISHER SCIENTIFIC, CHEMICAL DIVISION  
Company's Street: 1 REAGENT LANE  
Company's P. O. Box:  
Company's City: FAIR LAWN  
Company's State: NJ  
Company's Country:  
Company's Zip Code: 07410  
Company's Emerg Ph #: 201-796-7523(CHEMTREC 800-429-9300)  
Company's Info Ph #: 201-796-7100  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: D  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 003  
Status: SE  
Date MSDS Prepared: 03NOV88  
Safety Data Review Date: 30NOV89  
Supply Item Manager: CX  
MSDS Preparer's Name: GASTON L. PILLORI  
Preparer's Company:  
Preparer's St Or P. O. Box:  
Preparer's City:  
Preparer's State:  
Preparer's Zip Code:

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Other MSDS Number:  
MSDS Serial Number: BHCNJ  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code: F3  
Unit Of Issue: BT  
Unit Of Issue Container Qty: 1  
Type Of Container: BOTTLE  
Net Unit Weight: 16 OZ

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NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

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Ingredients/Identity Information

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Proprietary: NO  
Ingredient: TERT-BUTYL ALCOHOL (SARA III)  
Ingredient Sequence Number: 01  
Percent: >99  
Ingredient Action Code:  
Ingredient Focal Point: D  
NIOSH (RTECS) Number: EO1925000  
CAS Number: 75-65-0  
OSHA PEL: 100 PPM  
ACGIH TLV: 100PPM 9394  
Other Recommended Limit: NOT ESTABLISHED

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Physical/Chemical Characteristics

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Appearance And Odor: COLORLESS, HYGROSCOPIC LIQUID OR CRYSTALS WITH CA  
MPOR  
ODOR  
Boiling Point: 180F,82C  
Melting Point: 78.0F,25.6C  
Vapor Pressure (MM Hg/70 F): 31  
Vapor Density (Air=1): 2.6  
Specific Gravity: 0.80  
Decomposition Temperature:  
Evaporation Rate And Ref: 1.05 (BUTYL ACETATE=1)  
Solubility In Water: SOLUBLE

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Percent Volatiles By Volume:  
Viscosity:  
pH:  
Radioactivity:  
Form (Radioactive Matl):  
Magnetism (Milligauss): N/P  
Corrosion Rate (IPY):  
Autoignition Temperature: 896F

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Fire and Explosion Hazard Data

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Flash Point: 52.0F,11.1C  
Flash Point Method: CC  
Lower Explosive Limit: 2.4  
Upper Explosive Limit: 8.0  
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY  
OR  
ALCOHOL FOAM  
Special Fire Fighting Proc: MOVE FROM FIRE AREA, IF POSSIBLE. USE FLOODING  
AMOUNTS OF WATER AS A FOG, SOLID STREAMS MAY BE INEFFECTIVE. AVOID  
BREATHING VAPORS, KEEP UPWIND.  
Unusual Fire And Expl Hazrds: CONTAINERS MAY BURST WHEN EXPOSED TO HEAT OF  
FIRE.

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Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): STABLE IN CLOSED CONTAINERS UNDER NORMAL  
TEMPERATURES AND PRESSURES.  
Materials To Avoid: ALKALI METALS, ALUMINUM, CHROMIUM TRIOXIDE, OXIDIZERS,  
PLASTICS, MINERAL ACIDS, HYDROCHLORIC ACID.  
Hazardous Decomp Products: STRONG MINERAL ACIDS OR THERMAL-OXIDATIVE  
REACTIONS CAUSE DECOMPOSITION & MAY RELEASE CARBON MONOXIDE OR ISOBUTYLENE  
GAS  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data

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LD50-LC50 Mixture: LD50 (ORAL RAT) IS 3500 MG/KG  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: ACUTES: INHALE- SHORTNESS OF BREATH, CNS DEPRESSION. SKIN-REDNESS, IRRITATION, ERYTHEMA, HYPEREMIA. EYE- IRRITATION, REDNESS, PAIN, BLURRED VISION. INGEST- ABDOMINAL PAIN, CNS DEPRESSION, LIVER DAMAGE. CHRONIC: EYE- CONJUNCTIVITIS. SKIN- DRYING AND CRACKING. INHALE- REVERSIBLE LIVER, KIDNEY, AND HEART.  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.  
Signs/Symptoms Of Overexp: IRRITATION, COUGHING, SHORTNESS OF BREATH, DIZZINESS, DROWSINESS, VERTIGO, NAUSEA, VOMITING, FATIGUE, REDNESS OF THE SKIN AND EYE WITH PAIN AND BLURRED VISION.  
Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN, LIVER, KIDNEY, OR RESPIRATORY DISEASE MAY BE AT AN INCREASED RISK FROM EXPOSURE.  
Emergency/First Aid Proc: INHALATION: REMOVE SUBJECT TO FRESH AIR, IF BREATHING STOPPED GIVE ARTIFICIAL RESPIRATION. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: INDUCE VOMITING BY PLACING FINGER AT THE BACK OF THE THROAT. GET IMMEDIATE MEDICAL ATTENTION.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: WIPE OR SOAK UP SMALL SPILLS WITH PAPER TOWEL OR INERT ABSORBANT. DIKE TO RETAIN LARGE SPILLS. REMOVE RESIDUE WITH INERT ABSORBANT. PLACE IN DISPOSAL CONTAINER. ISOLATE HAZARD AREA AND DENY ENTRY. NO SMOKING OR OPEN FLAMES IN THE AREA.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA .  
PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP CONTAINERS  
CLOSED.

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Other Precautions: VAPOR HAZARD INDOORS, OUTDOORS OR IN SEWERS, RUN-OFF  
TO  
SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

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Control Measures

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Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION  
EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER  
CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR  
SELECTION.

Ventilation: MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST

MAY BE REQUIRED IF WORK AREA IS NOT VENTED.

Protective Gloves: RUBBER

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: SAFETY SHOWER AND EYE BATH. OTHER EQUIPMENT AS

REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING.

LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Suppl. Safety & Health Data:

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Transportation Data

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Transportation Action Code:

Transportation Focal Point: D

Trans Data Review Date: 89334

DOT PSN Code: GJJ

DOT Symbol:

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

DOT Class: 3

DOT ID Number: UN1993

DOT Pack Group: II

DOT Label: FLAMMABLE LIQUID

DOT/DoD Exemption Number:

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IMO PSN Code: HIM  
 IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. o  
 IMO Regulations Page Number: 3126  
 IMO UN Number: 1993  
 IMO UN Class: 3.1  
 IMO Subsidiary Risk Label: -  
 IATA PSN Code: MBV  
 IATA UN ID Number: 1993  
 IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. \*  
 IATA UN Class: 3  
 IATA Subsidiary Risk Class:  
 IATA Label: FLAMMABLE LIQUID  
 AFI PSN Code: MBV  
 AFI Symbols:  
 AFI Prop. Shipping Name: FLAMMABLE LIQUIDS, N.O.S.  
 AFI Class: 3  
 AFI ID Number: UN1993  
 AFI Pack Group: II  
 AFI Label:  
 AFI Special Prov:  
 AFI Basic Pac Ref: 7-7

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MMAC Code:  
 N.O.S. Shipping Name:  
 Additional Trans Data:

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Disposal Data

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Disposal Data Action Code:  
 Disposal Data Focal Point:  
 Disposal Data Review Date:  
 Rec # For This Disp Entry:  
 Tot Disp Entries Per NSN:  
 Landfill Ban Item:  
 Disposal Supplemental Data:  
 1st EPA Haz Wst Code New:  
 1st EPA Haz Wst Name New:  
 1st EPA Haz Wst Char New:  
 1st EPA Acute Hazard New:  
 2nd EPA Haz Wst Code New:  
 2nd EPA Haz Wst Name New:  
 2nd EPA Haz Wst Char New:  
 2nd EPA Acute Hazard New:  
 3rd EPA Haz Wst Code New:

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3rd EPA Haz Wst Name New:  
3rd EPA Haz Wst Char New:  
3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES  
Technical Review Date:  
Label Date:  
MFR Label Number:  
Label Status: F  
Common Name:  
Chronic Hazard: N/P  
Signal Word:  
Acute Health Hazard-None:  
Acute Health Hazard-Slight:  
Acute Health Hazard-Moderate:  
Acute Health Hazard-Severe:  
Contact Hazard-None:  
Contact Hazard-Slight:  
Contact Hazard-Moderate:  
Contact Hazard-Severe:  
Fire Hazard-None:  
Fire Hazard-Slight:  
Fire Hazard-Moderate:  
Fire Hazard-Severe:  
Reactivity Hazard-None:  
Reactivity Hazard-Slight:  
Reactivity Hazard-Moderate:  
Reactivity Hazard-Severe:  
Special Hazard Precautions: MAY BE POISONOUS IF INHALED OR ABSORBED

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THROUGH SKIN. VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT MAY IRRITATE OR BURN SKIN AND EYES. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES. RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

Protect Eye:  
Protect Skin:  
Protect Respiratory:  
Label Name: FISHER SCIENTIFIC, CHEMICAL DIV.  
Label Street: 1 REAGENT LANE  
Label P.O. Box:  
Label City: FAIR LAWN  
Label State: NJ

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Label Zip Code: 07410

Label Country: US