

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:

132601

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

Report for NIIN: 004602091

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

132601

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.

Report for NIIN: 004602091

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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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132601

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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.

132601

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

Report for NIIN: 004602091

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:

132601

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

Report for NIIN: 004602091

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:

132601

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

Report for NIIN: 004602091

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

132601

Label Zip Code: 07410

Label Country: US

Label Emergency Number: 201-796-7100 OR 201-796-7523

Year Procured: