

T-324,TOLUENE

MSDS Number

BDPHZ

National Stock Number

6810-00-257-2487

Product Name

T-324,TOLUENE

Manufacturer

FISHER SCIENTIFIC CO

Product Identification

Product ID:T-324,TOLUENE

MSDS Date:01/16/1992

FSC:6810

NIIN:00-257-2487

MSDS Number: BDPHZ

Responsible Party

FISHER SCIENTIFIC CO

585 ALPHA DR

PITTSBURGH , PA 15238-2911

US

Emergency Phone: 412-526-8300 201-796-7100

Info Phone: 410-526-8300

Cage: 22527

Contractor

FISHER SCIENTIFIC CO

PITTSBURGH, PA 15275

US

412-490-8586

Cage: 22527

Ingredients

TOLUENE (SARA III)

CAS: 108-88-3

RTECS: XS5250000

Fraction By Weight: 100%

OSHA PEL100 PPM; 150 STEL

ACGIH TLV: 100 PPM; 150 STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

IN ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK

RTECS: 9999999ZZ

WATER IN FLOODING QTYS AS FOG, SOLID STREAMS MAY

RTECS: 9999999ZZ

ELECTROCONDUCTIVITY OF SUBSTANCE, FLOW/AGITATION

RTECS: 9999999ZZ

DIMETHYL-2,4-IMIDAZOLIDIDIONE, DINITROGEN

RTECS: 9999999ZZ

OXIDIZERS, PLASTICS, RUB & COATINGS, SILVER

RTECS: 9999999ZZ

GAG, DISTRESS, ACUTE HEMORR PNEUM & PULM

RTECS: 9999999ZZ

APPEARS ON NAVY LIST OF CHEM REPRO HAZ. SEEK

RTECS: 9999999ZZ

MAY

RTECS: 9999999ZZ

CHEST PAIN, HDCH, VERTIGO, NAUS, ANOREXIA, MOMETARY

RTECS: 9999999ZZ

HEARING, ALCOHOL INTOLERANCE, ABNORM BLEED.

RTECS: 9999999ZZ

RPTD/PRLNG CNTCT W/IRRITANTS MAY CAUSE CONJ.

RTECS: 9999999ZZ

OF CHEM REMAINS (@ LEAST 15 MIN). GET MED

RTECS: 9999999ZZ

ASPIR. GASTRIC LAVAGE W/CUFFED ENDOTRACHEAL TUBE IN

RTECS: 9999999ZZ

ABSENCE OF DEPRESS/CONVLS/IMPAIRED GAG REFLEX,

RTECS: 9999999ZZ

INCR HAZ OF ASPIR. TREAT SYMP & SUPPORTIVELY.

RTECS: 9999999ZZ

MED ATTN IMMED. NO SPECIFIC ANTIDOTE. TREAT SYMP &

RTECS: 9999999ZZ

OR FLARES IN HAZ AREA. KEEP UNNEC PERS AWAY;

RTECS: 9999999ZZ

SUPPLIED-AIR RESP

RTECS: 9999999ZZ

SUPPLIED-AIR RESP W/FULL FACEPIECE. AIR-PURIFYING

RTECS: 9999999ZZ

AIR-PURIFYING,

RTECS: 9999999ZZ

OR BACK-MOUNTED ORG VAP CANISTER. APPROP

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:LD50: (ORAL, RAT) 2250 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHAL:2000PPM IMMED DANGEROUS TO LIFE/HLTH. ODOR DETECTION INSUFFICIENT WARNING DUE TO OLFACTORY FATG. 100PPM:IRRIT. 200-600PPM, UP TO 8 HRS:FATG, WEAK, CONFUSN, HDCH, NAUS, IMPAIRED COORDINATION & RX N TIME, PARESTHESIAS OF SKIN, EUPHORIA,DIZZ, DILATED PUPILS. 800PPM:IRRIT, NASAL MUC SECRETION, METAL (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:TASTE, DROW, IMPAIRED BALANCE W/AFTEREFTS INCL NERVOUSNESS, MUSC FATG & INSOM. DEATH MAY BE DUE TO RESP FAILURE/VENTRICULAR FIBRILLATION. SKIN: IRRIT, DRYING.

EYES: IRRIT & CORNEAL BURNS. 300 -800PPM:IRRIT & LACRIMATION, CORNEAL LESIONS. INGEST:BURNING SENSATION & ABDOM SPASMS. ASPIR MAY CAUSE COUGH, (ING 7)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:INHAL: REMOVE TO FRESH AIR IMMED. IF BRTHG STOPPED PERFORM ARTF RESP. KEEP WARM & AT REST. TREAT SYMP & SUPPORTIVELY. GET MED ATTN IMMED. SKIN: REMOVE CONTAMD CLTHG & SHOES IMMED. WASH AREA W/SOAP/MIL D DETERGENT & LG AMTS WATER UNTIL NO EVID OF CHEM REMAINS (APPROX 15-20 MIN). GET MED ATTN IMMED. EYES: WASH IMMED W/LG AMTS WATER/NORM SALINE, OCCAS LIFTING UPPER & LOWER LIDS UNTIL NO EVID (ING 13)

Fire Fighting

Flash Point Method:CC

Flash Point:40F/4C

Lower Limits:1.2%

Upper Limits:7.1%

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures: NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP. MOVE CNTNR FROM FIRE AREA IF IT CAN BE DONE W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS EXPOS TO (SUPDAT)
Unusual Fire/Explosion Hazard: DANGEROUS FIRE HAZ WHEN EXPOS TO HEAT/FLAME. VAPS HVR/AIR & MAY TRAVEL CONSIDERABLE DIST TO SOURCE OF IGNIT & FLASH BACK. VAP-AIR MIX EXPLO. DUE TO LOW (ING 4)

Accidental Release

Spill Release Procedures: SHUT OFF IGNIT SOURCES. STOP LEAK IF IT CAN BE DONE W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. SM SPILLS: TAKE UP W/SAND/OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. LG SPILLS: DIKE FAR AHEAD OF SPILL FOR LATER DISP. NO SMKNG, FLAMES (ING 18)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions: STORE IN ACCORDANCE WITH 29 CFR 1910.106. STORE AWAY FROM INCOMPATIBLE SUBSTANCES. SEPARATE FROM OXIDIZING MATERIALS.
Other Precautions: PROTECT AGAINST PHYSICAL DMG. OUTSIDE/DETACHED STORAGE PREF. INSIDE STORAGE SHOULD BE IN STD FLAMM LIQ STORAGE ROOM/CABINET. SUBSTANCES W/LOW ELECTROCONDUCTIVITY SHOULD BE STORED IN CNTNRS WHICH MEET BONDING & GROUNDING GUIDELINES.

Exposure Controls

Respiratory Protection: RESP SELECTED MUST BE BASED ON CONTAM LEVELS FOUND, MUST NOT EXCEED WORKING LIM OF RESP & BE NIOSH/MSHA APPRVD. RECOM: 1000PPM: ANY CHEM CARTRIDGE RESP W/ORG VAP CARTRIDGE. SUPPLIED-AIR RESP. POWERED AIR-PURIFYING RESP W/ORG VAP (ING 19)
Ventilation: LOCAL/MECHANICAL.
Protective Gloves: IMPERVIOUS.
Eye Protection: SPLASH PROOF/SAFETY GOGGLES.
Other Protective Equipment: EMERGENCY EYEWASH. APPROP PROTECTIVE (IMPERVIOUS) CLOTHING & EQUIPMENT TO PREVENT REPEATED/PROLONGED SKIN CONTACT.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
FIRE FIGHT PROC: FLAMES UNTIL WELL AFTER FIRE OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZ. IF IMPOSS, W/DRAW FROM AREA & LET FIRE BURN. W/DR AW IMMED IF RISING SOUND FROM VENTING SFTY DEVICE/ANY DISCOLORATION OF TANK DUE TO FIRE. ISOLATE FOR 1/2 MILE (ING 2)

Chemical Properties

HCC: F2
Boiling Pt: B.P. Text: 231F, 111C
Melt/Freeze Pt: M.P/F.P Text: -139F, -95C
Vapor Pres: 22
Vapor Density: 3.1
Spec Gravity: 0.868
Evaporation Rate & Reference: 2.24 (BUTYL ACETATE=1)
Solubility in Water: 0.05%
Appearance and Odor: CLEAR, COLORLESS LIQUID; AROMATIC ODOR.
Percent Volatiles by Volume: 100

Stability

Stability Indicator/Materials to Avoid: YES
ALLYL CHLORIDE + DICHLOROETHYL ALUMINUM/ETHYLALUMINUM SESQUICHLORIDE, BROMINE TRIFLUORIDE, 1,3-DICHLORO-5,5- (ING 5)
Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE ACRID SMOKE & IRRITATING FUMES.

Disposal

Waste Disposal Methods: DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. EPA HAZARDOUS WASTE NUMBER U220.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.