

TOLUENE

MSDS Number

BCPND

National Stock Number

6810-00N008149

Product Name

TOLUENE

Manufacturer

MALLINCKRODT INC SCIENCE PRODUCTS DIV

Product Identification

Product ID:TOLUENE

MSDS Date:04/06/1989

FSC:6810

NIIN:00N008149

MSDS Number: BCPND

Responsible Party

MALLINCKRODT INC SCIENCE PRODUCTS DIVISION

PARIS BYPASS

PARIS , KY 40361

US

Emergency Phone: 314-982-5000

Info Phone: 314-982-5000

Cage: 62910

Contractor

MALLINCKRODT SPECIALTY CHEMICALS CO

PHILLIPSBURG, NJ 08865

US

908-859-2151

Cage: 62910

Ingredients

TOLUENE (SARA III)

CAS: 108-88-3

RTECS: XS5250000

Fraction By Weight: 99%+

OSHA PEL200 PPM/150 STEL

ACGIH TLV: 50 PPM; 9293

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

Hazards

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 5 GM/KG

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

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

Health Hazards Acute and Chronic:INHALATION MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. SWALLOWING MAY CAUSE ABDOMINAL SPASMS.

ASPIRATION INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS, WHICH MAY

BE FATAL. SKIN CONTACT MAY CAUSE IRRITATION. EYE CONTACT MAY CAUSE IRRITATION, REDNESS, & TEARING. CHRONIC POISONING MAY DAMAGE KIDNEYS & LIVER.

Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN, MUTAGEN, TERATOGEN OR NEUROTOXIN.

Effects of Overexposure:SYMPTOMS INCLUDE FATIGUE, CONFUSION, HEADACHE, DIZZINESS AND DROWSINESS. PECULIAR SKIN SENSATIONS (PINS AND NEEDLES) OR NUMBNESS MAY BE PRODUCED. VERY HIGH CONCENTRATIONS MAY CAUSE UNCONSCIOUSNESS AND DEATH.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR IMPAIRED LIVER OR KIDNEY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE. ALCOHOLIC BEVERAGE CONSUMPTION CAN ENHANCE ITS TOXIC EFFECTS.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. GET MEDICAL ATTENTION. SKIN: WASH WITH PLENTY OF SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. INGESTED: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

Fire Fighting

Flash Point Method:CC

Flash Point:40.0F,4.4C

Autoignition Temp:Autoignition Temp Text:896F

Lower Limits:1.2

Upper Limits:7.1

Extinguishing Media:USE DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES AND TO DILUTE SPILLS.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:ABOVE FLASH POINT, VAPOR AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS . CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE AND EXPLOSIONS.

Accidental Release

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. USE NON-SPARKING TOOLS AND EQUIPMENT. WEAR PROTECTIVE CLOTHING AND SCBA. CONTAIN AND RECOVER LIQUID FOR RECLAMATION WHEN POSSIBLE. DO NOT FLUSH TO SEWER. SMALL SPILLS MAY BE ABSORBED WITH INERT MATERIAL OR PAPER TOWEL.

Neutralizing Agent:NOT APPLICABLE.

Handling

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE.

Other Precautions:OUTSIDE OR DETACHED STORAGE IS PREFERRED. SEPARATE FROM OXIDIZING MATERIALS. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS. STORAGE AND USE AREAS SHOULD BE NO SMOKING AREAS. USE NON-SPARKING TYPE EQUIPMENT.

Exposure Controls

Respiratory Protection:IF THE TLV IS EXCEEDED, A HALF MASK CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN UP TO TEN TIMES THE TLV OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE RESPIRATOR SUPPLIER, WHICHEVER IS LESS.

Ventilation:A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS

Eye Protection:CHEMICAL SAFETY GOGGLES W/FACE SHIELD

Other Protective Equipment:IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. REPORTABLE QUANTITY (RQ) IS 1000 LBS.

Chemical Properties

HCC:F3

Boiling Pt:B.P. Text:231F,111C

Melt/Freeze Pt:M.P/F.P Text:-139F,-95C

Vapor Pres:22

Vapor Density:3.14

Spec Gravity:0.86

Evaporation Rate & Reference:2.0 (N-BUTYL ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH AROMATIC BENZENE-LIKE ODOR.

Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES

AVOID STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS, MITROGEN TETRAOXIDE. WILL ATTACK SOME FORMS OF PLASTIC AND RUBBER.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:TOXIC GASES AND VAPORS (E.G. CARBON MONOXIDE AND CARBON DIOXIDE) MAY BE RELEASED IN A FIRE INVOLVING TOLUENE.

Disposal

Waste Disposal Methods:MAY BE ATOMIZED IN A SUITABLE RCRA APPROVED COMBUSTION CHAMBER. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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.