View NSN Online: https://aerobasegroup.com/nsn/6810-00-840-6318

PHOENIX INDUSTRIES INC -- TOLUENE, ACS GRADE -- 6810-00-840-6318

Product ID:TOLUENE, ACS GRADE MSDS Date:03/10/1999 FSC:6810 NIIN:00-840-6318 Status Code:A MSDS Number: CJHKC === Responsible Party === Company Name: PHOENIX INDUSTRIES INC Address:11028 LEADBETTER RD UNIT 10 City:ASHLAND State:VA ZIP:23005 Country:US Info Phone Num:804-264-5183 **Emergency Phone Nu** m:804-264-5183 Chemtrec Ind/Phone:(800)424-9300 CAGE:0YED2 === Contractor Identification === Company Name: PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY Box:City:RICHMOND State:VA ZIP:23222 Country:US Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-99-M-C957 CAGE:0YED2

Ingred Name:TOLUENE CAS:108-88-3 RTECS #:XS5250000 = Wt:100. OSHA PEL:see Table Z-2 ACGIH TLV:188 MG/M3;50 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty: LD50 LC50 Mixture:ORAL RAT LD50= 636 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic: INHALATION MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT. INGESTION MAY CAUSE ABDOMINAL SPASMS AND OTHER SYMPTOMS THAT PARALLEL OVER-EXPOSURE TO INHALATION.SKIN CONTACT CAUSES IRRITATION. MAY B E ABSORBED THROUGH SKIN. EYE CONTACT CAUSES SEVERE EYE IRRITATION. CHRONIC: REPORTS OF CHRONIC POISONING DESCRIBE ANEMIA, BLOOD CELL COUNT & BONE MARROW APLASIA. LIVER & KIDNEY DAMAGE MAY OCCUR. REPE ATED OR PROLONGED CONTACT HAS A DEFATTING ACTION, CAUSING DRYING. REDNESS, DERMATITIS. EXPOSURE TO TOLUENE MAY AFFECT THE DEVELOPING FETUS. Explanation of Carcinogenicity: TOLUENE IS LISTED BY IARC AS A CATAGORY III. Effects of Overexposure: INHALED-FATIGUE, CONFUSION, HEADACHE, DIZZINESS, D ROWSINESS, PECULIAR SKIN SENSATIONS (EG PINS AND NEEDLES) OR NUMBNESS, UNCONSCIOUSNESS, POSSIBLE DEATH. INGESTED-ABDOMINAL SPASMS, CHEMICAL PNEUMONITI S (ASPIRATION). SKIN-IRRITATION, DRYING, REDNESS. EYES-IRRITATION. Medical Cond Aggravated by Exposure: PERSONS WITH PREEXISTING SKIN DISORDERS OR IMPAIRED LIVER OR KIDNEY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE. ALCOHOLIC BEVERAGE CONSUMPTION CAN ENHANCE THE TOXIC EFFECTS.

First Aid:INHALED-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. GIVE OXYGEN IF BREATHING DIFFICULT. INGESTED-DO NOT INDUCE VOMITING! GIVE ALRGE QUANTITIES OF WATER. NEVER GIVE UNCONSCIO US PERSON ANYTHING BY MOUTH. GET IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS, KEEP HEAD BELOW KNEES TO PREVENT ASPIRATION. SKIN-IMMEDIATELY FLUSH SKIN WITH LOTS OF SOAP & WATER. WASH CLOTHES BEFOR E REUSE. CALL A PH YSICIAN IMMEDIATELY.

EYES-IMMEDIATELY FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING EYELIDS. GET IMMEDIATE MEDICAL ATTENTION.

Flash Point Method:CC Flash Point:=7.C, 44.6F Autoignition Temp:=422.C, 791.6F Lower Limits:3.3 **Upper Limits:19** Extinguishing Media: DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES AND TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURES. Fir e Fighting Procedures: IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WATER S PRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. Unusual Fire/Explosion Hazard: ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS NOTED ABOVE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. SENSITIVE TO STATIC

DISCHARGE.

Spill Release Procedures: VENTILATE SPILL AREA. REMOVE IGNITION SOURCES. WEAR APPROPRIATE PERSONAL PROTECTIVE GEAR. ISOLATE HAZARD AREA. KEEP UNECESSARY & UNPROTECTED PEOPLE AWAY. COLLECT LIQUID IN AN APPROPRIATE MANNER OR ABS ORB WITH INERT MATERIAL & PLACE IN A CHEMICAL WASTE CONTAINER; DO NOT USE COMBUSTIBLE MATERIALS. IF SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS. Neutralizi

ng Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE
IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM WHERE FIRE
HAZARD MAY BE ACUTE. SEPARATE FROM INCOMPATIBLES. CONTAINERS SHOULD
BE BONDED & GROUNDED. STORAGE & USE AREAS SHOULD BE NO SMOKING
AREAS. USE NON-SPARKING OOLS & EQUIPMENT.
Other Precautions:EMPTY CONTAINERS MAY BE HAZARDOUS DUE TO RETAI

NING

RESIDUE.OBSERVE ALL WARNINGS & PRECAUTIONS LISTED FOR THIS PRODUCT.

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

Respiratory Protection: RESPIRATORY PROTECTION DEPENDS ON THE LEVEL OF EXPOSURE: UP TO 10 TIMES EXPOSURE LIMIT-HALF-MASK WITH ORGANIC VAPOR CARTRIDGE; UP TO 50 TIMES EXPOSURE LIMIT-FULL FACE RESPIRATOR WITH ORGANIC VAPOR CAR TRIDGE; EMERGENCIES OR UNKNOWN LEVELS-FULL FACE, POSITIVE-PRESSUE, AIR-SUPPLIED RESPIRATOR.

Ventilation: A SYSTEM

OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO

KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL IS PREFERRED.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE.

Other Protective Equipment: IMPERVIOUS PROTECTIVE CLOTHING, BOOTS, LAB COAT, APRON AND COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT. MAINTAIN EYEWASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. Work Hygienic P

ractices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

HCC:F2 Boiling Pt:=111.C, 231.8F Melt/Freeze Pt:=-95.C, -139.F Vapor Pres:22@20C Vapor Density:3.14 Spec Gravity:0.86 @20C Solubility in Water:0.05GM/100GM H20@20C Appearance and Odor:CLEAR, COLORLESS LIQUID. AROMATIC BENZENE-LIKE ODOR.

Stability Indicator/Materials to Avoid:YES

HEAT, FLAME, STRONG OXIDIZERS, NITRIC AND SULFURIC ACIDS, CHLORINE, NITROGEN TETROXIDE; WILL ATTACK SOME FORMS OF PLASTICS, RUBBER, COATINGS.

Stability Condition to Avoid:HEAT, FLAMES, IGNITION SOURCES AND INCOMPATIBLES.

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

Toxicological Information:SKIN RABBIT LD50: 14100 UL/KG; INHALATION RAT LC50: 49 GM/M3/4HR; IRRITATION DATA: SKIN RABBIT-500 MG, MODERATE; EYE RABBIT, 2 MG/24 HR, SEVERE. INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFE CTOR. REPRODUCTIVE TOXICITY: HAS SHOWN SOME EVIDENCE OF REPRODUCTIVE EFFECTS IN LABROATORY ANIMALS.

Ecological:WHEN RELEASED INTO SOIL: MAY EVAPORATE TO A MODERATE EXTENT, LEACH

INTO GROUND WATER, BIODEGRADE TO A MODERATE EXTENT. WHEN RELEASED TO WATER: MAY EVAPORATE TO A MODERATE EXTENT, MAY BIODEGRADE TO MOD ERATE EXTENT. WHEN RELEASED TO AIR MAY: MAY BE MODERATELY DEGRADED BY PHOTOCHEMICALLY PRODUCED HYDROXY RADICALS, IS EXPECTED TO HAVE A HALF-LIFE OF LESS THAN 1 DAY. PRODUCT IS NOT EXPECTED TO BIOACCU MULATE. MATERIAL HAS A LOG OCTANOL-WATER COEFFCIENT OF LESS THAN 3.0. BIOCONCENTRATION FACTOR=13.2 (EELS). ENVIRONEMENTAL TOXICITY: THIS

MATERIAL IS EXPECTED TO BE TOXIC TO AQUATIC LIFE. LC50/96HR VAL UES FOR FISH ARE BETWEEN 10 & 100 MG/L.

Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE & SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED OF IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTA MINATION OF PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. DISPOSE OF IN ACCORD ANCE WITH

FEDERAL, STATE & LOCAL REQUIREMENTS.

Transport Information:DOT: PROPER SHIPPING NAME-TOLUENE, HAZARD CLASS-3, UN NUMBER-UN1294, PACKING GROUP-II. ICAO (AIR): TOLUENE, HAZARD CLASS-3, UN NUMBER-UN1294, PACKING GROUP-II.

SARA Title III Information:TOLUENE (108-88-3): SARA 302-NO; SARA 313 LIST-YES, CHEMICAL CATAGORY-NO. Federal Reg ulatory Information:TOLUENE: RCRA CERCLA-1000 LBS, TSCA 261.33 U220, TSCA 8(D)-NO. State Regulatory Information:WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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.