



THRESHOLD LIMIT VALUE: SEE SECTION 2

TOLUENE  
(108-88-3)

## ACUTE OVEREXPOSURE -

OVEREXPOSURE CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION PRODUCING SUCH EFFECTS AS HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS.

EYE CONTACT - SHORT-TERM LIQUID OR VAPOR CONTACT MAY RESULT IN SLIGHT EYE IRRITATION. PROLONGED AND REPEATED CONTACT MAY BE MORE IRRITATING.

SKIN CONTACT - PROLONGED AND REPEATED LIQUID CONTACT CAN CAUSE DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

INHALATION - HIGH CONCENTRATIONS OR PROLONGED TO LOWER CONCENTRATIONS MAY BE SLIGHTLY IRRITATING TO MUCOUS MEMBRANES.

INGESTION - LIQUID INGESTION MAY RESULT IN VOMITING; ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES IN THE LUNGS MAY RESULT IN CHEMICAL PNEUMONITIS AND PULMONARY EDEMA/HEMORRHAGE.

CHRONIC OVEREXPOSURE - RESPIRATORY TRACT IRRITATION.  
CENTRAL NERVOUS SYSTEM DEPRESSION IN HIGH CONCENTRATIONS.  
LIVER AND KIDNEY DAMAGE.

BRAIN CELL DAMAGE MAY RESULT FROM LONG TERM INHALATION OF TOLUENE VAPOR. ANIMAL STUDIES HAVE SHOWN THAT INHALATION OF HIGH LEVELS OF TOLUENE PRODUCED CARDIAC SENSITIZATION. SUCH SENSITIZATION MAY CAUSE FATAL CHANGES IN HEART RYTHMS. RATS EXPOSED TO 1400 PPM OR 1200 PPM OF TOLUENE FOR 14 HOURS PER DAY FOR 4 TO 5 WEEKS (RESPECTIVELY) EXHIBITED HIGH FREQUENCY HEARING DEFECTS. THERE IS NO EVIDENCE THAT INDUSTRIALLY ACCEPTED LEVELS OF TOLUENE VAPORS (E.G. THE TLV) HAVE PRODUCED CARDIAC EFFECTS IN HUMANS.

## FIRST AID:

EYE CONTACT - FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT - FLUSH WITH WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING OR SHOES UNTIL CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHIALATION - REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION - DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENNT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

MINERAL SPIRITS  
(64742-86-7)

ACUTE OVEREXPOSURE - CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION PRODUCING SUCH EFFECTS AS HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS.

EYE CONTACT - SHORT TERM LIQUID OR VAPOR CONTACT MAY RESULT IN SLIGHT EYE IRRITATION. PROLONGED AND REPEATED CONTACT MAY BE MORE IRRITATING.

SKIN CONTACT - PROLONGED AND REPEATED LIQUID CONTACT CAN CAUSE DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

INHILATION - HIGH CONCENTRATIONS OR PROLONGED EXPOSURE TO LOWER CONCENTRA- TIONS MAY BE SLIGHTLY IRRITATING TO MUCOUS MEMBRANES.

INGESTION - LIQUID INGESTION MAY RESULT IN VOMITING; ASPIRATION (BREATHING IN) OF LIQUID MUST BE AVOIDED AS LIQUIUD CONTACT WITH THE LUNGS CAN RESULT IN CHEMICAL PNEUMONITIS AND PULMONARY EDEMA/HEMORRHAGE.

## FIRST AID:

EYE CONTACT - FLUSH WITH WATER. ~~IF~~ PERSISTENT IRRITATION OCCURS, GET MEDICAL ATTENTION.

SKIN CONTACT - WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND DO NOT REUSE UNTIL LAUNDERED. IF PERSISTENT IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION - REMOVE TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION - DO NOT INDUCE VOMITING EVEN THOUGH VOMITING MAY OCCUR. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

#### HEXANE

(110-54-3)

##### ACUTE OVEREXPOSURE -

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.

SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.

INHALATION - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.

INGESTION - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

##### CHRONIC OVEREXPOSURE -

INFORMATION SUGGESTS THAT HEXANE HAS THE POTENTIAL OF CAUSING SERIOUS NERVE IMPAIRMENT AND POSSIBLE EVEN NERVE DAMAGE KNOWN AS PERIPHERAL NEUROPATHY ON PROLONGED OR REPEATED OVEREXPOSURE.

##### FIRST AID:

EYE CONTACT - FLUSH EYES WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

SKIN CONTACT - THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRER CONTAMINATED CLOTHING BEFORE RE-USE.

INHALATION - IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

INGESTION - IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

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#### SECTION 6 - REACTIVITY DATA

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STABILITY: STABLE                      CONDITIONS TO AVOID: DO NOT STORE ABOVE 120 DEG. F. KEEP FROM SPARKS, PILOT LIGHTS OR OPEN FLAME.

INCOMPATABILITY: (MATERIALS TO AVOID) NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NA

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#### SECTION 7 - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION, AVOID BREATHING VAPORS, VENTILATE AREA. WIPE UP WITH INERT MATERIALS AND PLACE IN APPROPRIATE CONTAINER.

WASTE DISPOSAL METHODS: DO NOT INCINERATE AEROSOL, DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT PLACE AEROSOL CANS IN HOME COMPACTOR. DO NOT PUNCTURE.

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SECTION 8 - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: AVOID CONTINUOUS BREATHING OF VAPORS AND SPRAY MIST. A SELF CONTAINED BREATHING APPARATUS REQUIRED FOR CONCENTRATIONS ABOVE TLV LIMITS.

VENTILATION: USE WITH ADEQUATE VENTILATION, SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS.

PROTECTIVE GLOVES: OPTIONAL

EYE PROTECTION: ONLY UNDER CONDITIONS WHERE SPRAY MIST MIGHT GET INTO EYES.

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SECTION 9 - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE ABOVE 120 DEG. F. EXPOSURE TO HEAT OR PROLONG EXPOSURE TO SUN MAY CAUSE BURSTING.

OTHER PRECAUTIONS: USE ONLY AS DIRECTED. INTENTIONAL MISUSE BY DILIBERATELY CONCENTRATING VAPORS AND INHALING CONTENTS CAN BE HARMFUL OR FATAL.