

M A T E R I A L S A F E T Y D A T A S H E E T  
EM SCIENCE  
A DIVISION OF EM INDUSTRIES  
111 WOODCREST  
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PREPARATION DATE .....: JAN 27, '88  
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| N F P A H A Z A R D R A T I N G S  
|  
| H E A L T H .....: 1      F L A M M A B I L I T Y .....: 3  
| R E A C T I V I T Y : 0      S P E C I A L H A Z A R D S . . . :  
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SECTION I - GENERAL INFORMATION

CATALOG NUMBER(S):      HX0293      HX0294      HX0296      HX0297      HX0298  
                         HX0299      HX0299P      HX0299S      HX0300      HX0310      HX0290      HX0292  
                         9687

CHEMICAL NAME.....: HEXANE  
TRADE NAME.....: HEXANES  
C.A.S. NUMBER.....: 110-54-3  
CHEMICAL FAMILY..: ALIPHATIC HYDROCARBON  
FORMULA.....: C6H14  
MOLECULAR WEIGHT.: 86.18  
DOT SHIPPING NAME: HEXANE  
DOT NUMBER.....: UN1208

SECTION II - HAZARDOUS INGREDIENTS

-NONE OTHER THAN SPECIFIED PRODUCT

SECTION III- PHYSICAL DATA

BOILING POINT (C 760 MM HG)..: 65C  
MELTING POINT (C).....: - 95C  
SPECIFIC GRAVITY(H2O = 1).....: 0.6603  
VAPOR PRESSURE..(MM HG).....: 125      20C  
PERCENT VOLATILE BY VOL (%)..: 100  
VAPOR DENSITY (AIR=1).....: 3.0  
EVAPORATION RATE (BUAC=1).....: 9.0  
SOLUBILITY IN WATER (%).: SLIGHT  
APPEARANCE AND ODOR.....: CLEAR, COLORLESS LIQUID,  
CHARACTERISTIC ODOR

SECTION IV - FIRE & EXPLOSION HAZARD DATA

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FLASH POINT (F).....: -7F (CC).  
FLAMMABLE LIMITS LEL %.: 1.2  
FLAMMABLE LIMITS UEL %.: 7.5  
EXTINGUISHING MEDIA.....: CO2, DRY CHEMICAL, FOAM  
FIRE FIGHTING PROC.....:

WEAR SELF-CONTAINED BREATHING APPARATUS.

FIRE & EXPL. HAZARDS....:

DANGEROUS FIRE AND EXPLOSION HAZARD.

VAPOR CAN TRAVEL DISTANCES TO IGNITION SOURCE AND FLASH BACK.

SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TLV/OSHA PEL (TWA).....: (TLV) 50 PPM  
(PEL) 500 PPM

TOXICITY DATA.....:

-IHL-HMN TCLO: 5000 PPM/10M ORL-RAT LD50: 28710 MG/KG

SYMPTOMS OF EXPOSURE .....

TOXIC BY INGESTION AND INHALATION.

VAPOR INHALATION CAUSES IRRITATION OF NASAL AND RESPIRATORY PASSAGES,

HEADACHE, DIZZINESS, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION.

CHRONIC OVEREXPOSURE CAN CAUSE SEVERE NERVE DAMAGE.

MAY CAUSE IRRITATION ON CONTACT WITH SKIN OR EYES.

MAY CAUSE DAMAGE TO KIDNEYS.

MEDICAL COND. AGGRAVATED BY EXP: KIDNEY, RESPIRATORY AND CNS CONDITIONS  
ROUTES OF ENTRY.....: INHALATION, INGESTION OR SKIN CONTACT.

CARCINOGENICITY.....:

THE MATERIAL IS NOT LISTED AS A CANCER CAUSING AGENT.

EMERGENCY FIRST AID.....:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE

EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF  
BREATHING HAS STOPPED.

INGESTION: DO NOT INDUCE VOMITING; GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY.....: YES

CONDITIONS TO AVOID .....: HEAT; CONTACT WITH IGNITION SOURCE.

MATERIALS TO AVOID.....: ( ) WATER ( ) ACIDS

( ) BASES ( ) CORROSIVES (X) OXIDIZERS

( ) OTHER:

HAZARDOUS POLYMERIZATION.: DOES NOT OCCUR

HAZARDOUS DECOMPOSITION.: COX

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE:

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-DIKE SPILL; TAKE UP WITH ABSORBENT; CONTAINERIZE FOR PROPER DISPOSAL  
WASTE DISPOSAL: TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL,  
STATE AND FEDERAL REGULATIONS.

SECTION VIII - SPECIAL PROTECTION INFORMATION  
VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION:  
-MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME  
HOOD OR WITH ADEQUATE VENTILATION  
PROTECTIVE GLOVES (NITRILE, VITON OR EQUIVALENT) SHOULD BE WORN  
TO PREVENT SKIN CONTACT  
SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES  
NIOSH-APPROVED RESPIRATOR SHOULD BE WORN IN THE ABSENCE OF ADEQUATE  
VENTILATION.

SECTION IX - SPECIAL PRECAUTIONS  
HANDLING & STORAGE .....:  
KEEP CONTAINER CLOSED.  
STORE IN A COOL AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS.  
DO NOT BREATHE VAPOR.  
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.  
ELECTRICALLY GROUND ALL EQUIPMENT WHEN HANDLING THIS PRODUCT  
RETAINED RESIDUE MAY MAKE EMPTY CONTAINERS HAZARDOUS; USE CAUTION!  
WORK/HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE  
INTERNALLY. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

SECTION X - OTHER INFORMATION  
COMMENTS.....:  
-TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE  
MUTAGENIC AND REPRODUCTIVE EFFECTS  
REVISION HISTORY.....: 05/01/83, 9/26/86, 6/3/87, 8/28/87, 10/27/87  
N/A = NOT AVAILABLE: