

FISHER SCIENTIFIC -- N-HEXANE -- 6810-00-830-7864

===== Product Identification =====

Product ID:N-HEXANE
MSDS Date:12/19/1994
FSC:6810
NIIN:00-830-7864
MSDS Number: CDXBH
=== Responsible Party ===
Company Name:FISHER SCIENTIFIC
Address:1 REAGENT LANE
City:FAIRLAWN
State:NJ
ZIP:07410
Country:US
Info Phone Num:201-769-7100
Emergency Phone Num:703-527-3887;800-424-9300(CHEMTREC)
CAGE:1B464
=== Contr
actor Identification ===
Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV
Address:1 REAGENT LANE
Box:City:FAIRLAWN
State:NJ
ZIP:07410-2802
Country:US
Phone:201-796-7100
CAGE:1B464

===== Composition/Information on Ingredients =====

Ingred Name:HEXANE; (N-HEXANE) (CERCLA)
CAS:110-54-3
RTECS #:MN9275000
Fraction by Wt: 100%
OSHA PEL:500 PPM
ACGIH TLV:50 PPM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SUPDAT:FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA,
USE UNMAN

NED HOSE HOLDER/MONITOR NOZZLES: IF THIS IS (ING 3)
RTECS #:9999999ZZ

Inged Name:ING 2:IMPOSS, W/DRAW FROM AREA & LET FIRE BURN. W/DRAW
IMMED IN CASE OF RISING SOUND FROM VENTING SFTY DEVICE/ANY(ING 4)
RTECS #:9999999ZZ

Inged Name:ING 3:DISCOLORATION OF TANK DUE TO FIRE. ISOLATE FOR 1/2
MILE IN ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK IS (ING 5)
RTECS #:9999999ZZ

Inged Name:ING 4:INVOLVED IN FIRE. EXTING ONLY IF FLOW CAN BE STOPPED;
USE WATER IN FLOODING AMTS AS FOG. SOLID S
TREAMS MAY (ING 6)
RTECS #:9999999ZZ

Inged Name:ING 5:NOT BE EFTIVE. COOL CNTNRS W/FLOODING QTYS OF WATEER.
APPLY FROM AS FAR DIST AS POSS. AVOID BRTHG TOX VAPS;(ING 7)
RTECS #:9999999ZZ

Inged Name:ING 6:KEEP UPWIND. EVACUATE TO RADIUS OF 1500 FEET FOR
UNCONTROLLABLE FIRES. CONSIDER EVACUATION OF DOWNWIND AREA(ING 8)
RTECS #:9999999ZZ

Inged Name:ING 7:IF MATERIAL IS LEAKING.
RTECS #:9999999ZZ

Inged Name:EXPLO HAZ:DUE TO LOW ELECTROCONDUCTIVITY OF SUBSTANCE,
FLOW/AGITATION MAY
GENERATE ELECTROSTATIC CHARGES RSLTG (ING 10)
RTECS #:9999999ZZ

Inged Name:ING 9:IN SPARKS W/POSSIBLE IGNITION.
RTECS #:9999999ZZ

Inged Name:EFTS OF OVEREXP:RESULTANT RAPID DILUTIONN OF ALVEOLAR AIR &
MARKED FALL IN ITS OXYG CONTENT, W/CONSEQUENT BRAIN (ING 12)
RTECS #:9999999ZZ

Inged Name:ING 11:DMG/CARD ARREST. CHRONIC:INHAL:RSLTS IN AXONAL
NEUROPATHY. PRLNG EXPOS MAY CAUSE EFTS AS IN ACUTE EXPOS (ING 13)
RTECS #:9999999ZZ

Inged Name:ING 12:AS WELL AS MEMORY LOSS, PROGRESSIVE

WEAK, ACHING

MUSCLES, SENSORY LOSS IN FEET & HANDS, CALF CRAMPS, (ING 14)

RTECS #:9999999ZZ

Ingred Name:ING 13:FACIAL NUMB, IMPOTENCE, BLURRED VISION, COLOR VISION
ABNORMS & PARAL OF MUSCLES USUALLY OF LOWER LIMBS. (ING 15)

RTECS #:9999999ZZ

Ingred Name:ING 14:REPRO EFTS HAVE BEEN REPORTED IN ANIMALS.

SKIN:RPTD/PRLNG CONT MAY CAUSE DERM DUE TO DEFAT. EYE:RPTD/ (ING
16)

RTECS #:9999999ZZ

Ingred Name:ING 15:PRLNG CONT W/IRRITS MAY CAUSE CONJ. INGEST:REPRO
EFTS HAVE BEEN RPRT

D IN ANIMALS. FOR MORE INFO CONT NEHC .

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:INGEST:EXTREME CARE MUST BE USED TO PVNT
ASPIR. USE GASTRIC LAVAGE W/ACTIVATED CHARCOAL & CUFFED (ING 18)

RTECS #:9999999ZZ

Ingred Name:ING 17:ENDOTRACHEAL TUBE W/IN 15 MINS. IN ABSENCE OF
DEPRESS, CONVLN/IMPAIRED GAG REFLEX, IPECAC EMESIS CAN BE (ING 19)

RTECS #:9999999ZZ

Ingred Name:ING 18:DONE. WHEN VOMIT BEGINS, KEEP HEAD LOWER THAN HIPS
TO PVNT ASPIR. AFTER VOMIT STOPS, GIVE 30-60 MLS OF (ING

20)

RTECS #:9999999ZZ

Ingred Name:ING 19:FLEET'S PHOSPHO-SODA DILUTED 1:4 IN WATER. MAINTAIN
AIRWAY, BLOOD PRESS & RESP. TREATMENT MUST BE ADMIN (ING 21)

RTECS #:9999999ZZ

Ingred Name:ING 20:BY QUALIFIED MEDICAL PERSONNEL. GET MEDICAL
ATTENTION.

RTECS #:9999999ZZ

Other REC Limits:NONE RECOMMENDED

Ingred Name:OTHER PROT EQUIP:TO PREVENT REPEATED OR PROLONGED SKIN
CONTACT WITH THIS SUBSTANCE.

RTECS #:9999999ZZ

Other REC Limits:NONE RECOMMENDED

Ingred Name:EYE PROT:AND FULL LENGTH

FACESHIELD .
RTECS #:9999999ZZ
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:LD50:(ORAL,RAT) 28,710 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:YES
Health Hazards Acute and Chronic:ACUTE:INHAL:5000 PPM IDLH. 800 PPM FOR
15 MINS HAS CAUSED UPPER RESP TRACT IRRIT. 1000-5000 PPM MAY PRDCE
HDCH, NAUS & DIZZ. OTHER EFTS MAY INCL GIDD, COUGH, NUMB I
N
EXTREMS, DFCLTY WALKING, DEFECTS O F MEMORY & UNCON. PULM EDEMA,
CARD ARRHY, BRAIN DMG, CARD ARREST & DEATH MAY RSLT. SKIN CONT:VAP
MAY (EFTS OF OVEREXP)
Explanation of Carcinogenicity:CONTAINS 2-A [53-96-3]
WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A
CARCINOGEN.
Effects of Overexposure:HLTH HAZ:CAUSE IRRIT W/REDNESS. EYE CONT:MAY
CAUSE IRRIT W/REDNESS & PAIN. VAPS AT 800 PPM FOR 15 MINS CAUSED
IRRIT. INGEST:MAY CAUSE CNS EFTS, HDCH, NAUS, VOM
IT, VERTIGO,
BRONCH & GEN INTEST IRRIT W/ ABDOM SWELL & PAIN. FATAL HUMAN DOSE
MAY BE ABOUT 50 GMS. MAY VAPORIZE WHEN ASPIR INTO TRACHEOBRONCHIAL
TREE W/ (ING 11)
Medical Cond Aggravated by Exposure:PERSONS W/SKIN, PULMONARY, LIVER OR
KIDNEY DISORDERS ARE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:INHAL:REMOVE TO FRESH AIR IMMED. PERFORM ARTF RESP IF NEC.
KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPOR
TIVELY.
SKIN:REMOVE CONTAM CLTHG & SHOES IMMED. WASH W/SOAP & WATER UNTIL
NO EVID OF CHEM REMAINS (AT LST 15-20 MINS). GET MED ATTN.
EYES:WASH IMMED W/LG AMTS OF WATER/NORMAL SALINE, OCCAS LIFTING
UPPER & LOWER LIDS, UNTIL NO EVID OF CHEM REMAINS (AT LST 15-20
MINS). GET MED ATTN. (ING 17)

===== Fire Fighting Measures =====

Flash Point Method:CC
Flash Point:-7F,-22C
Lower Limits:1.1%
Upper Limits:7.5%
Extinguishing Media:DRY CHEMICAL, CARB

ON DIOXIDE, WATER SPRAY OR
REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR
FOAM.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP . MOVE
CNTNR FROM FIRE AREA IF YOU CAN DO IT W/OUT RISK. APPLY COOLING
WATER TO SIDES OF CNTNRS THAT ARE (SUPDAT)

Unusual Fire/Explosion Hazard:DANGEROUS FIRE HAZ WHEN EXPOS TO
HEAT/FLAME. VAPS ARE HVR/AIR & MAY TRAVEL CONSIDERABLE DIST TO
SOURCE OF IGNIT & FLASH BACK. VAP-AIR MIXTS ARE EXPLO. (ING 9)

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===== Accidental Release Measures =====

Spill Release Procedures:SHUT OFF IGNIT SOURCES. STOP LEAK IF W/OUT
RISK. USE WATER SPRAY TO REDUCE VAPS. SM SPILLS:TAKE UP W/SAND OR
OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. LGR
SPILLS:DIKE FAR AHEAD OF SPILL FO R LATER DISP. NO SMOKING,
FLAMES/FLARESIN(SUPDAT)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precaut

ions:STORE I/A/W 29 CFR 1910.106. STORE

AWAY FROM INCOMPAT SUBSTANCES. STORE IN CLSD CNTNRS IN WELL-VENTED,
COOL, DRY, DARK PLACE. VAPS MAY BE EXPLO.

Other Precautions:AVOID OVERHEATING OF CNTNRS; CNTNRS MAY VIOLENTLY
RUPTURE IN HEAT OF FIRE. AVOID CONTAM OF WATER SOURCES. SUBSTANCES
W/LOW ELECTROCONDUCTIVITY, WHICH MAY BE IGNITED BY ELECTROSTATIC
SPKS, SHOULD BE ST ORED IN CNTNRS WHICH MEET THE (SUPDAT)

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

Re

spiratory Protection:SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON
CONTAMINATION LEVELS FOUND IN WORK PLACE, MUST NOT EXCEED WORKING
LIMITS OF RESPIRATOR & BE NIOSH APPROVED. FOR A LIST OF SPECIFIC
RESPIRATORY PROTECTION CONTACT NEHC .

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION TO MEET PELS. VENTILATION
EQUIPMENT MUST BE EXPLOSION PROOF.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGS .

Other Protective Equipment:ANSI APPRVD EYE WASH FOUN

TAIN & DELUGE

SHOWER . APPROP PROT (IMPERVIOUS) CLTHG & EQUIP TO PVNT CONT W/SUBSTANCE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MATLS TO AVOID:CONCENTRATED OXYG, PLASTICS, RUBBER & COATINGS, SODIUM HYPOCHLORITE. SPILL PROC:HAZ AREA. ISOLATE HAZ AREA & RESTRICT ENTRY. OTHER PREC:BONDING & GROUNDING GUIDELINES SPECIFIED IN NFPA 77-1983, REC PRACTICE ON STATIC ELEC. FIRE FIGHT PROC:EXPOS TO FLAMES UNTIL WELL AFTER FIRE IS OUT.

STAY AWAY (ING 2)

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:156F,69C

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

Vapor Pres:124 @ 20C

Vapor Density:3

Spec Gravity:0.6603

pH:NEUT

Evaporation Rate & Reference:15.8 (BUTYL ACETATE=1)

Solubility in Water:0.014% @ 20C.

Appearance and Odor:CLEAR, COLORLESS MOBILE LIQUID W/MILD GASOLINE-LIKE ODOR.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Sta

bility Indicator/Materials to Avoid:YES

CALCIUM HYPOCHLORITE, LIQ CHLORINE, DINITROGEN TETRAOXIDE, FLUORINE, MAGNESIUM PERCHLORATE, STRONG OXIDIZERS, (SUPDAT)

Stability Condition to Avoid:AVOID CONTACT W/HEAT, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.

===== Disposal Considerations =====

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE & LOCAL REGUL

ATIONS

WHEN DISPOSING OF THIS SUBSTANCE. DISPOSAL MUST BE I/A/W STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. EPA HAZARDOUS WASTE NUMBER D0 01. CERCLA REPORTABLE QUANTITY:100 LBS

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