

FISHER SCIENTIFIC -- HEXANES -- 6810-01-063-4534

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

Product ID:HEXANES

MSDS Date:02/12/1986

FSC:6810

NIIN:01-063-4534

MSDS Number: BQWGC

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100;800-424-9300(CHEMTREC)

CAGE:1B464

=== Cont

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

CAS:110-54-3

RTECS #:MN9275000

Fraction by Wt: 100%

OSHA PEL:500 PPM

ACGIH TLV:50 PPM; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:SUPP DATA:COOL CNTNRS W/FLOODING QTYS OF WATER, APPLY FROM  
AS FAR A DISTANCE AS PO

SSIBLE. AVOID BRTHG TOX VAPS, (ING 3)  
RTECS #:9999999ZZ

Inged Name:ING 2: KEEP UPWIND. EVAC TO A RADIUS OF 1500 FEET FOR  
UNCONTROLLABLE FIRES. EVAC DOWNWIND FOR LEAKS (BUREAU OF (ING 4)  
RTECS #:9999999ZZ

Inged Name:ING 3:EXPLO, EMER HNDLG OF HAZ MATLS IN SURF  
TRANSPORTATION, 1981). WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT  
EQUIP.  
RTECS #:9999999ZZ

Inged Name:CNDTNS TO AVOID (STAB):CNTNR MAY EXPLO IN HEAT/FIRE. VAP  
EXPLOSION HAZ INDOORS, OUTDOORS OR IN SEWERS. RUNOFF (ING 6)  
R  
TECS #:9999999ZZ

Inged Name:ING 5: TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.  
RTECS #:9999999ZZ

Inged Name:EFTS OF OVEREXP: & MUSCLE WEAKNESS. ALCOHOL MAY ENHANCE THE  
TOXIC EFFECTS.  
RTECS #:9999999ZZ

Inged Name:FIRST AID PROC:(APPROX 15-20 MIN). GET MED ATTN IMMED.  
EYES: WASH IMMED W/LRG AMTS OF WATER FOR @ LST 15 MIN, (ING 9)  
RTECS #:9999999ZZ

Inged Name:ING 8:OCCASNLy LIFTING UPPER & LOWER LIDS UNTIL NO EVIDENCE  
OF CHEM REMAINS. GET MED ATTN. INGEST:DO NOT INDUCE(ING 10)  
RTECS #:9999999ZZ

Inged Name:ING 9: VOMITING. GET IMMEDIATE MEDICAL ATTENTION.  
RTECS #:9999999ZZ

Inged Name:SPILL PROC:PRACTICAL & EFFTIVE IN ORDER TO REDUCE THE  
CONTAM & THE AMT OF MATL TO DISP.NO SMOKING, FLAMES/FLARES(ING 12)  
RTECS #:9999999ZZ

Inged Name:ING 11: IN THE HAZARD AREA. KEEP UNNECESSARY PEOPLE AWAY;  
ISOLATE HAZARD AREA AND DENY ENTRY.  
RTECS #:9999999ZZ

Inged Name:RESP PROT:ESCAPE: GAS-MASK W/ORGANIC VAP CANISTER  
(CHIN-STYLE OR FRONT OR BACK-MOUNTED CANISTER).

SELF-CONTAINED(ING

14)

RTECS #:9999999ZZ

Other REC Limits:N/L

Ingred Name:ING 13: BREATHING APPARATUS. FIREFIGHTING: SELF-CONTAINED  
BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED (ING 15)

RTECS #:9999999ZZ

Ingred Name:ING 14: IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: APPROP PROT (IMPERVIOUS) CLOTHING AND  
EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

RTECS #:9999999ZZ

=====  
Hazards Identifica  
tion =====

LD50 LC50 Mixture:LD50:(ORAL,RAT) 28710 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:INHAL:IRRIT/NEUROTOXIN. 5000 PPM IMMEDIATELY  
DANGEROUS TO LIFE OR HLTH. ACUTE:LIGHTHEADEDNESS, NAUSEA, VOMITING,  
NARCOSIS, HEADACHE, IRRITATION OF THE UPPER RESPIRATORY TRACT. CHRONIC:PROLONGED EXPOSURE  
MAY CAUSE PERIPHERAL NEUROPATHY & CARDIAC SENSITIZATION.

SKIN:IRRIT/NARCOTIC. ACUTE:PROLONGED CONTACT MAY PRODUCE MODERATE IRRITATION.

RODUCE MOD IRRIT. MAY

BE ABSORBED, (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HEALTH HAZARD:PRODUCING NARCOSIS.

CHRONIC:REPORTED/PROLONGED CONTACT DEFATTS SKIN, RESULTING IN DERMATITIS. EYE:IRRITATION.

ACUTE:DIRECT CONTACT WITH LIQUID MAY RESULT IN IRRITATION, REDNESS, TEARING, &  
PAIN. VAPORS MAY CAUSE IRRITATION. CHRONIC: REPORTED/ PROLONGED CONTACT MAY CAUSE  
CONJUNCTIVITIS. INGESTION:IRRITATION OR NARCOTIC. ACUTE: NUMBNESS, IRRITATION OF  
GI TRACT, NAUSEA, VOMITING,(ING 7)

Medical Condition Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION:REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS  
STOPPED, GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY & BLOOD PRESSURE & ADMINISTER O<sub>2</sub>  
IF AVAILABLE. KEEP AFFECTED PERSON WARM & AT REST. ADMINISTRATION OF O<sub>2</sub> SHOULD BE  
PERFORMED BY QUALIFIED PERSONNEL. GET MEDICAL ATTENTION IMMEDIATELY. SKIN:REMOVE  
CONTAMINATED CLOTHING & SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP/MILD  
DETERGENT & LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CONTAMINATION

DIENCE OF CHEM REMAINS  
(ING 8)

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

Flash Point:-7F,-22C

Lower Limits:1.1%

Upper Limits:7.5%

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM.  
FOR LARGE FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:MOVE CNTNR FROM FIRE AREA IF POSS. COOL  
FIRE-EXPOSED CNTNRS W/WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT.  
FOR MASSIVE FIRE IN STORAGE AREA, USE (SUPP DATA)

Unusual Fire/Ex

losion Hazard:DANGER FIRE/SEVERE EXPLOSION HAZ WHEN  
EXPOSED TO HEAT/FLAME. VAPORS ARE HVR/AIR & MAY TRAVEL A  
CONSIDERABLE DISTANCE TO A SOURCE OF IGNIT & FLASH BACK.

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

Spill Release Procedures:SHUT OFF IGNIT SOURCES. STOP LEAK IF YOU CAN  
DO IT WITHOUT RISK. USE WATER SPRAY TO REMOVE VAPS. FOR SML SPILLS,  
TAKE UP WITH SAND/OTHER ABSORBENT MATL & PLACE INTO CNTNRS FOR  
LATER DISP. FOR LRG SPIL LS, DIKE AS CLOSE  
TO THE SPILL AS IS (ING  
11)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NIOSH/MSHA APPRVD: EXPOSURE LIMIT TO 1000  
PPM:SUPPLIED-AIR RESP SELF-CONTAINED BRTHG APPARATUS. 5000  
PPM:SELF-CONTAINED BRTHG APPAR

ATUS W/A FULL FACEPIECE OPERATED IN  
PRESS-DEMAND OR OTHER POSITIVE PRE SS MODE, OR USE EQUIVALENT  
RESP.(ING 13)

Ventilation:PROVIDE LOC EXHST VENT/GEN DILUTION VENT TO MEET  
PERMISSIBLE EXPOSURE LIMITS. VENT EQUIPMENT MUST BE EXPLOSION  
PROOF.

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:CHEM WORK GOGG/FULL LENGTH FSHLD .

Other Protective Equipment:EMPLOYER SHALL PROVIDE EYE-WASH FOUNTAIN  
WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE. EMPLOYEE SHALL  
WEAR (ING 16)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC:UNMANNED HOSE HOLDER/MONITOR NOZZ, ELSE WITHDRAW FROM AREA & LET FIRE BURN. WITHDRAW IMMEDIATE IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE/ANY DISCOLORATION OF STORAGE TANK DUE TO FIRE. EXTING ONLY IF FLOW CAN BE STOPPED; USE WATER IN FLOODING AMTS AS FOG SOLID STREAMS MAY NOT BE EFFECTIVE. (ING 2)

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

Boiling Pt:B.P. Text:136F,58C  
Melt/Freeze Pt:M.P/F.P Text:-139F,-95C  
Vapor Pres:124 @ 20C  
Vapor Density:3.0  
Spec Gravity:0.7  
Solubility in Water:INSOLUBLE  
Appearance and Odor:COLORLESS LIQUID, FAINT ODOR, VERY VOLATILE

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZERS: VIOLENT REACTION. DINITROGEN TETRAOXIDE: POSSIBLE EXPLOSION.  
Stability Condition to Avoid:MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES.  
VAPORS ARE HVR/A  
IR & MAY TRAVEL TO A SOURCE OF IGNITION & FLASH BACK.  
(ING 5)  
Hazardous Decomposition Products:COMBUSTION MAY RELEASE ACRID SMOKE AND IRRITATING FUMES.

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS .

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