View NSN Online: https://aerobasegroup.kr/nsn/6810-00-975-1530

Product ID:METHYL ETHYL KETONE, M208

MSDS Date:03/11/1994

FSC:6810

NIIN:00-975-1530

MSDS Number: CDPXZ === 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;800-424-9

300(CHEMTREC) CAGE:1B464

=== Contractor 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:2-BUTANONE; (METHYL ETHYL KETONE) (MEK) (SARA 313) (CERCLA)

CAS:78-93-3

RTECS #:EL6475000 Fraction by Wt: 100% OSHA PEL:200 PPM

ACGIH TLV:200 PPM;300 STEL

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

- ngred Name:SUPDAT:FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK IS INVOLVED IN FIRE. EXTING ONLY IF FLOW CAN (ING 3) RTECS #:9999992Z
- Ingred Name:ING 2:BE STOPPED; USE WATER IN FLOODING AMTS AS FOG, SOLID STREAMS MAY NOT BE EFTIVE. COOL CNTNRS W/FLOODING QTYS(ING 4) RTECS #:9999992Z
- Ingred Name:ING 3:OF WATER. APPLY FROM AS FAR A DISTANCE AS POSSIBLE. AVOID BREATHING VAPORS, KEEP UPWIND. WATER MAY BE INEFFECTIVE. RTECS #:9999992Z
- Ingred Name:EFTS OF OVEREXP:100,00 0 PPM:NARC & DEATH W/IN 45-55 MINS. ANIMALS THAT DIED:EMPHYSEMA, SLIGHT CONGESTION OF (ING 6) RTECS #:9999999ZZ
- Ingred Name:ING 5:SYSTEMIC ORGS, ESP LUNGS. SKIN:DERM, EXTREME THICKENING OF FINGERNAILS W/PERM DESTRUCT OF NAIL BEDS. SENSIT(ING 7)
 RTECS #:9999992Z
- Ingred Name:ING 6:DID NOT OCCUR IN MAN. RABBIT:LETHAL DOSE PRDCD ERYTHEMA, EDEMA, NECROSIS. LIVER, INTEST CONGESTION. EYES: (ING 8) RTECS #:9999999ZZ
- Ingred Name:ING 7:200 PPM:IRRIT; 3300 PPM:MOD IRRIT; 10,000 PPM:ALMO ST
- INTOLERABLE(GUINEA PIGS). SEV ANTERIOR UVEITIS, POSS (ING 9) RTECS #:9999992Z
- Ingred Name:ING 8:TRIGGERED BY TRAUMA. RABBITS:PAINFUL IRRIT & TEMPORARY CORNEAL INJURY. GUINEA PIGS:TEMPORARY CORNEAL (ING 10) RTECS #:9999999ZZ
- Ingred Name:ING 9:OPACITY. INGEST:COMA, HYPERVENT, METABOLIC ACIDOSIS, TACHYCARDIA, GI IRRIT W/ABDOM SPASMS, NAUS, VOMIT, (ING 11) RTECS #:9999992Z
- Ingred Name:ING 10:HDCH & DIZZ. ANIMALS:LETHAL DOSES:CONGESTED & HEMORRHAGIC LUNGS & CONGEST OF LIVER, A

LIMENTARY TRACT & (ING 12) RTECS #:9999992Z

Ingred Name:ING 11:PERITONEAL WALL. ASPIR MAY RSLT IN CHEM PNEUM. CHRONIC:INHAL:1000-3000 PPM:OFFSPRING OF PREGNANT RATS: (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:SKELETAL, SOFT TISS, STERNEBRAL VARIATIONS. 3000 PPM:SLIGHT MATERNAL & FETAL TOX. UNCON, CONVLS, WEAK & (ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13:NUMB IN LEGS, LOSS OF MUSCLE STRENGTH, FATG, BILATERAL PARESTHESIA; POTENTIATED NEUROTOX EFTS OF N-HEXANE(ING 15)

RTEC

S #:9999992Z

Ingred Name:ING 14:IN GLUE-SNIFFERS & METHYL N-BUTYL KETONE IN WORKERS. SKIN:DEFAT PRDCG DRY, SCALY, FISSURED DERM. ABSORP:(ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:CONTRIBUTED TO TOX EFTS DETAILED IN CHRONIC INHAL. EYE:CONJ. INGEST:ANIMALS:CLINICAL NEUROPATHY. ADDNL (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:DATA:MAY ENHANCE NEUROTOX EFTS OF N-HEXANE/METHYL N-BUTYL KETONE & PREDISPOSE LIVER TO INJURY FROM (ING 18) RTECS #:9999992Z

Ingred Name:ING 17:HEPATOX
INS INCL CARBON TETRACHLORIDE & CHLOROFORM &
POTENTIATE NEPHROTOX OF CHLOROFORM. INTERACTIONS W/ (ING 19)
RTECS #:9999999ZZ

Ingred Name:ING 18:ALCOHOL MAY OCCUR. INCR RISK OF LEUKEMIA FOR CHILDREN WHOSE FATHERS HAD OCCUP EXPOS TO PROD AFTER BIRTH (ING 20) RTECS #:9999999ZZ

Ingred Name:ING 19:OF CHILD. TARGET EFFECTS:CENTRAL NERVOUS SYSTEM DEPRESSANT.
RTECS #:9999992Z

Ingred Name:OTHER PREC:CNTNRS WHICH MEET BONDING & GROUNDING GUIDELINES SPECIFIED IN NFPA 77-1983 - REC PRACTI

CE ON STATIC ELEC. RTECS #:99999992Z

Ingred Name:SPILL PROC:IN HAZ AREA. KEEP UNNEC PEOPLE AWAY; ISOLATE HAZ AREA & DENY ENTRY. RQ:5000 LBS. SARA REQS THAT RELS (ING 23) RTECS #:9999999ZZ

Ingred Name:ING 22:EQUAL TO/GREATER THAN RQ FOR THIS SUBSTANCE BE IMMED REPORTED TO LOC EMER PLANNING COMMITTEE & STATE EMER(ING 24) RTECS #:9999999ZZ

Ingred Name:ING 23:RESPONSE COMMISSION (40 CF4 355.40). IF RELS OF THIS SUBSTANCE IS REPORTABLE UNDER CERCLA SECTION 103, (ING 25) RTECS #:9999999
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Ingred Name:ING 24:NRC MUST BE NOTIFIED IMMED AT (800)424-8802 OR (202)426-2675 IN METROPOLITAN WASHINGTON, D.C. AREA(40 CFR 302.6). RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50:(ORAL,RAT) 2737 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:IRRIT/NARC. ACUTE:INHAL:100-200

PPM:MILD NOSE & THROAT IRRIT; 90-270 PPM:SHOR

TENED TIME ESTS IN MEN

& INCR VARIATION IN TIME EST TESTS IN WOMEN; 300-500 PPM:THROAT IRRIT, HDCH, VOMIT, NAUS; 3300 PPM:M OD IRRIT; 10,000 PPM:INTOLERABLE IRRIT OF NOSE. DFCLTY BRTHG, COUGH, SHORTNESS OF BREATH, CNS DEPRESS (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure:HLTH HAZ:W/DIZZ, DROW, WEAK, LOSS OF CONSCIOUSNESS, POSS DEATH; RETROBULBAR NEURITIS-HDCH, MILD VERTIGO, DIMINISHED VISION, MILD RESP SYMPS & CONJ IRRIT; OPTIC NERV E TOX

RELATED TO METABOLISM. GUINEA PIGS:10,000 PPM: IRRIT RAPIDLY & NARC AFTER 240-280 MINS; 33,000 PPM:SYMPS SOONER & DEATH IN 200-260 MINS; (ING 5)

Medical Cond Aggravated by Exposure:PERSONS W/HISTORY OF CHRONIC SKIN OR RESPIRATORY DISEASE, OR PERIPHERAL NEUROPATHY ARE AT INCREASED RISK FROM EXPOSURE.

First Aid:INGEST:CALL MD IMMED . INHAL:REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE O*2/ARTF RESP

) . EYES:IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES. SEEK ASSISTANCE FROM MD (FP N). SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD . ANTIDOTE:NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. FOR MORE SPECIFIC INFO REGARDING FIRST AID TREATMENT CONT NEHC .
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Flash Point Method:CC Flash Point:16.0F,-8.9C Lower Limits:1.4% @ 200F Upper Limits:11.4% @ 200F Extinguishing Media:DRY CHEM ICAL, CARBON DIOXIDE, WATER SPRAY/ALCOHOL-RESIST FOAM. FOR LGR FIRES, USE WATER SPRAY, FOG/ALCOHOL-RESIST 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 >16F(-9C).
Spill Release Procedures:SHUT OFF IGNIT SOURCES. STOP LEAK IF YOU CAN DO IT W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. SM SPILLS:TAKE UP W/SAND/OTHER ABSORB MATL & PLACE INTO CNTNRS FOR LATER DISP. LG SPILLS:DIKE FAR AHEAD F OR LATER DISP. NO SMOKING, FLAMES/FLARES (ING 22)
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
=========== Handling and Storage ============
Handling and Storage Precautions:OBSERVE ALL FED, STATE & LOC REGS WHEN STORING THIS SUBSTANCE. FOR ASSISTANCE, CONT DISTRICT DIRECTOR OF

EPA. STORE I/A/W 29 CFR 1910.106. FLAMM LIQ.

Other Precautions:STORE AWAY FROM INCOMPAT MATLS. DO NOT OVERHEAT CNTNRS; CNTNRS MAY VIOLENTLY RUPTURE & TRAVEL CONSIDERABLE DIST IN HEAT OF FIRE. SUBSTANCES W/LOW ELECTROCONDUCTIVITY, WHICH MAY BE IGNITED BY ELECTROST ATIC SPKS, SHOULD BE STORED IN (ING 21)

====== Exposure Controls/Personal Protect

Respiratory Protection:NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN . FOR MORE SPECIFIC INFORMATION CONTACT NEHC .

Ventilation:PROVIDE LOCAL EXHAUST OR GENERAL DILUTION 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 APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER. WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLO

THING &

EQUIPMENT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC:EXPOS TO FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. MASSIVE FIRE IN CARGO AREA:USE UNMANNED HOSE HOLDER/MONITOR NOZZ; IF IMPOSS, W/DRAW FROM AREA & LET FIRE BUR N. W/DRAW IMMED IN CASE OF RISING SOUNDFROM VENTING SFTY DEVICE/ANY DISCOLORATION OF TANK DUE TO FIRE. ISOLATE (ING 2)

	Physical/Chemical Properties	===
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Boiling Pt:B.P. Text:176F,80C

Melt/Freeze Pt:M.P/F.P Text:-123F,-86C

Vapor Pres:100 @ 25C Vapor Density:2.5 Spec Gravity:0.8054

Evaporation Rate & Department Reference: 2.7 (ETHER=1)

Solubility in Water:27.5%

Appearance and Odor: COLORLESS LIQUID W/ACETONE-LIKE ODOR.

=======================================	Stability and Reactivity Data	
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Stability Indicator/Materials to Avoid:YES

EXPLOS, STRONG OXIDIZERS, PEROXIDES, PLASTICS, RESINS & RUBBER. FOR A COMPLETE LIST OF MATLS TO AVOID CONT NEHC.

Stability Condition to Avoid:AVOID CONT W/HEAT, SPKS, FLAMES/OTHER SOURCES OF IGNIT. VAPS MAY BE EXPLO & POIS; DO NOT ALLOW UNNEC PERS IN AREA.

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

	Disposal	Considerations	
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Waste Disposal Methods:OBSERVE ALL FED, STATE & LOC REGS WHEN DISP OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT DISTRICT DIRECTOR OF EPA. DISP MUST BE I/A/W STDS

APPLIC TO GENERATORS OF HAZ WASTE, 40 CFR 262. EPA HAZ WASTE #U 159 & EPA TOX CHARACT:EPA HAZ WASTE #D035.

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