

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- ACETONE -- 6810-01-412-0075

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

Product ID:ACETONE

MSDS Date:08/11/2000

FSC:6810

NIIN:01-412-0075

MSDS Number: CKPTM

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100

Resp. Party Other MSDS Num.:CATALOG # A929-4, REVISION 40

Ch

emtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:3970 JOHNS CREEK CT, SUITE 500

Box:City:SUWANEE

State:GA

ZIP:30024

Country:US

Phone:770-871-4500

Contract Num:SP0450-01-M-D800

CAGE:8E930

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:AC

ETONE  
CAS:67-64-1  
RTECS #:AL3150000  
= Wt:99.  
Other REC Limits:250 PP(NIOSH)  
OSHA PEL:2400 MG/M3;1000 PPM  
ACGIH TLV:500 PPM  
ACGIH STEL:750 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:ORAL, RAT: LD50 = 5800 MG/KG  
Health Hazards Acute and Chronic:EYES: PRODUCES IRRITATION, AND  
POSSIBLE CORNEAL INJURY. SKIN: MAY CAUSE IRRITATION. INGESTION: MAY  
CAUSE IRRITATION OF DIGESTIVE TRACT. MAY CAUSE CENTRAL NER  
VOUS  
SYSTEM DEPRESSION, KIDNEY DAMAGE, AND LIVER DAMAGE. MAY CAUSE  
CENTRAL NERVOUS SYSTEM DEPRESSION. ADVANCED STAGES MAY CAUSE  
COLLAPSE, UNCONSCIOUSNESS, COMA, POSSIBLE DEATH DUE TO RESPIRATORY  
FAILURE. INHALATION: HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS  
SYSTEM EFFECTS, RESPIRATORY TRACT IRRITATION, LIVER AND KIDNEY  
DAMAGE, MOTOR INCOORDINATION AND SPEECH ABNORMALITIES. CHRONIC:  
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DERMATITIS.

Explanation of Carcinog  
enicity:ACGIH: A4 - NOT CLASSIFIABLE AS A HUMAN  
CARCINOGEN.

Effects of Overexposure:EYES: IRRITATION, BURNING SENSATION, REDNESS,  
TEARING, INFLAMATION, CORNEAL INJURY. SKIN: IRRITATION, DRYNESS,  
INFLAMMATION, DERMATITIS. INGESTION: IRRITATION OF GI TRACT,  
CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY DAMAGE, LIVER DAMAGE,  
HEADACHE, EXCITEMENT, FATIGUE, DIZZINESS, DROWSINESS, NAUSEA,  
VOMITING, STUPOR, COMA, COLLAPSE, UNCONSCIOUSNESS, DEATH.  
INHALATION: RESPIRATORY TRACT  
IRRITATION, LIVER AND KIDNEY DAMAGE,  
CENTRAL NERVOUS SYSTEM EFFECTS CHARACTERIZED BY HEADACHE,  
DIZZINESS, UNCONSCIOUSNESS, COMA. MAY CAUSE MOTOR INCOORDINATION,  
SPEECH ABNORMALITIES.

Medical Cond Aggravated by Exposure:NONE PROVIDED BY MFR.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES, LIFTING EYELIDS. GET  
MEDICAL AID. SKIN: FLUSH WITH SOAP AND WATER FOR 15 MINUTES. REMOVE  
CONTAMINATED CLOTHING AND SH

OES. GET MEDICAL AID IF IRRITATION

DEVELOPES OR PERSISTS. INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2 TO 4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. GET MEDICAL AID. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION USING OXYGEN AND SUITABLE MECHANICAL DEVICE SUCH AS A BAG AND MASK. DO NOT USE MOUTH-TO-MOUTH RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL

AID.

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

Flash Point:=-20.C, -4.F

Autoignition Temp:=465.C, 869.F

Lower Limits:2.5

Upper Limits:12.8

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

Fire Fighting Procedures:CONTAINERS CAN BUILD UP PRESSURE IF EXPOSED TO HEAT AND/OR FIRE. AS IN ANY FIRE, WEAR SELF CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazard:EXTREMELY FLAMMABLE LIQUID. VAPORS MAY BE HEAVIER THAN AIR AND CAN SPREAD ALONG GROUND, COLLECT IN LOW OR CONFINED AREAS. MAY BE IGNITED BY HEAT, SPARKS, AND FLAME. WATER MAY BE INEFFECTIVE. DO NOT USE STRAIGHT STREAMS OF WATER. COOL

CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT.

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

Spill Release Procedures:REMOVE IGNITION SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING. AVOID RUNOFF INTO SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS, WATER SPRAY MAY REDUCE VAPOR BUT NOT PREVENT IGNITION. ABSORB SPILL WITH INERT MATERIAL, PLACE INTO CHEMICAL WASTE  
C

CONTAINER. CLEAN UP RESIDUAL MATERIAL BY WASHING WITH A 2-5%  
SOLUTION OF SODA ASH.

Neutralizing Agent:CLEAN UP RESIDUAL MATERIAL BY WASHING WITH A 2-5%  
SOLUTION OF SODA ASH.

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

Handling and Storage Precautions:STORAGE: KEEP AWAY FROM HEAT AND  
SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN  
FLAMMABLES AREA, IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM  
INCOMPATIBLE SUBSTANCES. HANDLING : W

ASH AFTER HANDLING. REMOVE  
CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE.

Other Precautions:USE IN WELL VENTILATED AREA. GROUND AND BOND  
CONTAINERS WHEN TRANSFERRING MATERIAL. EMPTY CONTAINERS RETAIN  
PRODUCT RESIDUE AND CAN BE DANGEROUS. KEEP CONTAINER CLOSED. AVOID  
CONTACT WITH HEAT, SPARKS , FLAME. DO NOT PRESSURIZE, CUT, WELD,  
BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HE AT,  
SPARKS, FLAMES.

===== Exposure Controls/Personal Protection =====  
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Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN  
29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR  
EUROPEAN EN 149 APPROVED RESPIRATOR WHEN RESPIRATOR IS NECESSARY.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE  
LEVELS BELOW PERMISSIBLE EXPOSURE LIMITS.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT SKIN  
EXPOSURE.

Eye Protection:WEAR PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES  
PER 29

CFR 1910.133.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO  
PREVENT SKIN EXPOSURE. FACILITIES STORING OR UTILIZING THIS  
MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY  
SHOWER.

Work Hygienic Practices:WASH AFTER HANDLING. REMOVE CONTAMINATED  
CLOTHING AND WASH BEFORE REUSE. USE ONLY IN WELL VENTILATED AREA.

Supplemental Safety and Health

NOTES TO PHYSICIAN: FIRST AID: TREAT SYMTOMATICALLY AND SUPPORTIVELY.

===== Physical/Chemica

## I Properties =====

HCC:F2

Boiling Pt:=56.2C, 133.2F

Melt/Freeze Pt:=-95.3C, -139.6F

Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres:180 MM HG

Vapor Density:2.0(AIR=1)

Spec Gravity:0.79 (WATER=1)

pH:7

Viscosity:NOT AVAILABLE

Evaporation Rate & Reference:7.7 (N-BUTYL ACETATE=1)

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS LIQUID, SWEETISH ODOR - MUSKY.

Percent Volatiles by Volume:NONE PROVIDE

Corrosion Rate:NONE PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES

ACIDS, ALCOHOLS AND GLYCOLS, ALDEHYDES, AMIDES, AMINES (ALIPHATIC AND AROMATIC), AZO, DIAZO, AND HYDRAZINES, CARBAMATES, CAUSTICS, CYANIDES, DITHIOCARBAMATES, ESTERS, ETHERS.

Stability Condition to Avoid:STABLE AT ROOM TEMPERATURE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS. CONDITIONS TO AVOID: HIGH TEMPERATURES, TEMPERATURES ABOVE 220C,IGNITION SOURCES.

Hazardous Decomposition

Products:CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING AND TOXIC FUMES AND GASES.

Conditions to Avoid Polymerization:HAS NOT BEEN REPORTED.

## ===== Toxicological Information =====

Toxicological Information:LD50/LC50: INHALATION, RAT, LC50: 50,100 MG/M3/ 8H; ORAL,MOUSE, LD50: 3 GM/ KG; ORAL, RABBIT, LD50: 5,340 MG/KG; ORAL, RAT, LD50: 5,800 MG/M3; SKIN, RABBIT, LD50:20 GM/KG. CARCINOGENICITY: ACETONE: A CGIH: A4 - NOT CLASSIFIABLE AS A HUMANCARCINOE

N. EPIDEMIOLOGY: NO INFORMATION AVAILABLE.

TERATOGENICITY: NO INFORMATION AVAILABLE. REPRODUCTIVE EFFECTS:

TDLO (ORAL, RAT) = 273 GM/KG; REPRODUCTIVE - P A TERNAL EFFECTS -

SPERMATOGENESIS (INCL. GENETIC MATERIAL, SPERM MORPHOLOGY,

MOTILITY, AND COUNT). NEUROTOXICITY: NO INFORMATION AVAILABLE.

MUTAGENICITY: SEX CHROMOSOME LOSS AND NONDISJUNCTION (YEAST -

(CONTD. SEE "ECOLOGICAL")

===== Ecological Information =====

Ecological:RAINBOW TR

OUT LC50: 5540 MG/L/96H. SUNFISH (TAP WATER),

DEATH AT 14250 PPM/24H. MOSQUITO FISH (TURBID WATER) TLM = 13000

PPM/48H.LC50 (96HR) RAINBOW TROUT = 5540 MG/L; STATIC CONDITIONS,

11-13C. LC50 (96HR)FATHEAD MINNOW = 7280-8120 MG/L; FLOW-THRU

CONDITIONS. LC50 (96HR) BLUEGILL = 8300 MG/L. (CONTD. FROM

"TOXICOLOGICAL") SACCHAROMYCES CEREVISIAE) = 47,600 PPM;

CYTOGENETIC ANALYSIS (RODENT- HAMST ER FIBROBLAST) = 40 GM/L. OTHER

STUDIES: STANDARD DRAIZE TEST: ADMINISTRATION, S

KIN (HUMAN) = 500

MG/7DAYS (MILD). STD. DRAIZE TEST: ADMINISTRATION, SKIN (RABBIT)=

500 MG/ 24H (MILD). STD. DRAIZE TEST (EYE, RABBIT)= 20 MG; SEVERE.

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

Waste Disposal Methods:DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL,

STATE, AND LOCAL REGULATIONS. RCRA U-SERIES: WASTE

NUMBER U002 (IGNITABLE WASTE). CHEMICAL WASTE GENERATORS MUST

DETERMINE WHETHER A DISCA RDED CHEMICAL IS CLASSIFIABLE AS A

HAZ

ARDOUS WASTE.

===== MSDS Transport Information =====

Transport Information:US DOT: SHIPPING NAME: ACETONE; HAZARD CLASS: 3;

UN 1090; PACING GROUP: I I. CANADIAN TDG: SHIPPING NAME: ACETONE;

HAZARD CLASS: 3; UN 1090; OTHER INFORMATION: FLASHPOINT: -20C

===== Regulatory Information =====

SARA Title III Information:SECTION 302 (RQ): 5000 POUNDS FOR CAS #

67-64-1. SECTION 302 (TPQ): NONE OF THE CHEMICALS IN THIS RODUCT

HAVE A TPQ. SARA CODES: CAS# 67-64-1: ACUTE, CHRONIC, FLAMMABLE, SUDDEN RELEASE OF PRESSURE. SECTION 313: NO CHEMICALS ARE REPORTABLE UNDER SECTION 313. CLEAN WATER ACT: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA NOR LISTED AS PRIORITY POLLUTANTS UNDER THE CWA, NOR LISTED AS TOXIC POLLUTANTS UNDER THE CWA. FOR ADDITIONAL INFORMATION ON EXPOSURE LIMITS IN FOREIGN COUNTRIES, SEE MANUFACTURER'S MSDS (TOO NUMEROUS TO LIST IN THIS DMA ENTRY).

Federal Regulatory Information: TSCA: CAS# 67-64-1 IS LISTED ON TSCA INVENTORY. HEALTH AND SAFETY REPORTING LIST: NONE OF CHEMICALS ARE ON HEALTH AND SAFETY REPORTING LIST. CHEMICAL TEST RULES: NONE OF CHEMICALS IN PRODUCT ARE UNDER CHEMICAL TEST RULE. SECTION 12B: NONE OF CHEMICALS ARE LISTED UNDER TSCA SECTION 12B. TSCA SIGNIFICANT NEW USE RULE: NONE OF CHEMICALS IN MATERIAL HAVE A SNUR UNDER TSCA. CLEAN AIR ACT: THIS MATERIAL DOES NOT CONTAIN ANY

HAZARDOUS AIR POLLUTANTS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS. WGK (WATER DANGER/PROTECTION): CAS# 67-64-1: 0.

State Regulatory Information: ACETONE CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED. UNITED KINGDOM OCCUPATIONAL

EXPOSURE LIMITS, CAS# 67-64-1: OES-TWA

750 PPM ; 1810 MG/M3; STEL 1500 PPM; 3620 MG/M3. CANADA: CAS# 67-64-1 IS LISTED ON CANADA'S DSL/ NDSL LIST: THIS PRODUCT HAS A WHMIS CLASSIFICATION OF B2, D2B. CAS# 67-64-1 IS NOT LISTED ON CANADA'S INGREDIENT DISCLOSURE LIST. FOR INFORMATION ON EXPOSURE LIMITS IN FOREIGN COUNTRIES, SEE MANUFACTURER'S MSDS (TOO NUMEROUS TO LIST IN THIS DMA ENTRY).

===== Other Information =====

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