

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- ACETONE -- 6810-00-264-8955

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

Product ID:ACETONE

MSDS Date:01/04/2001

FSC:6810

NIIN:00-264-8955

Status Code:A

MSDS Number: CLRPG

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:ACC#00140

Chemtec

Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

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

Ingred Name:ACETONE

CAS:67-64-1

RTECS #:AL3150000

= Wt:99.

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 I

dentification =====

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

Health Hazards Acute and Chronic:ACUTE: CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. MAY CAUSE LIVER AND KIDNEY DAMAGE. CAUSES EYE AND SKIN IRRITATION. CHRONIC: DERMATITIS, CHRONIC INHALATION EFFECTS ARE SIMILAR TO THOSE OF ACUTE. TARGET ORGANS: KIDNEYS, CENTAL NERVOUS SYSTEM, LIVER, RESPIRATORY SYSTEM, EYES, SKIN.

Explanation of Carcinogenicity:CAS

67-64-1: ACGIH: A4 - NOT

CLASSIFIABLE AS A HUMAN CARCINOGEN

Effects of Overexposure:EYE: PRODUCES IRRITATION, CHARACTERIZED BY A BURNING SENSATION, REDNESS, TEARING, INFLAMMATION, AND POSSIBLE CORNEAL INJURY. SKIN: EXPOSURE MAY CAUSE IRRITATION CHARACTERIZED BY REDNESS, DRYNESS, AND INFLAMMATION. INGESTION: MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY DAMAGE, AND LIVER DAMAGE. SYMPTOMS MAY INCLUDE: HEADACHE, EXCITEMENT, FATIGUE, NAUSEA, VOMITING, STUPOR, AND COMA.

MAY CAUSE LIVER AND KIDNEY DAMAGE. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY EXCITEMENT, FOLLOWED BY HEADACHE, DIZZINESS, DROWSINESS, AND NAUSEA. SEE OTHER INFORMATION).

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

First Aid:EYES: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID IMMEDIATELY. SKIN: FLUSH SKIN

WITH PLENTY OF SOAP AND

WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL AID IF IRRITATION DEVELOPS OR PERSISTS. WASH CLOTHING BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. SEE SUPPLEMENTAL DATA.

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

Flash Point

t:=-20.C, -4.F

Autoignition Temp:=465.C, 869.F

Lower Limits:2.5

Upper Limits:12.8

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

Fire Fighting Procedures:WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. DO NOT USE ST

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

Unusual Fire/Explosion Hazard:VAPORS MAY FORM AND EXPLOSIVE MIXTURE WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY BE HEAVIER THAN AIR.

===== Accidental Release Measures =====
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Spill Release Procedures:USE PROPER PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL (E.G. VERMICULITE, DAND OR EARTH), THEN PLACE IN SUITABLE CONTAINER. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. WEAR APPROPRIATE PROTECTIVE CLOTHING TO MINIMIZE CONTACT WITH SKIN. REMOVE ALL SOURCES OF IGNITION. A VAPOR SUPPRESSING FOAM MAY BE USED RO REDUCE VAPORS.

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

Handling an

d Storage Precautions:KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP AWAY FROM SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. FLAMMABLE S-AREA. WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Other Precautions:USE ONLY IN A WELL-VENTILATED AREA. GROUND AND BOND CONTAINERS WHEN TRANSFERRING MATERIAL. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. EMPTY C

CONTAINERS RETAIN PRODUCT RESIDUE AND CAN
BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL,
GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, SPARKS OR OPEN FLAMES.

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

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

Ventilation:USE ADEQUAE GENERAL OR LOCAL
EXHAUST VENTILATION TO KEEP

AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

Protective Gloves:APPROPRIATE PROTECTIVE GLOVES.

Eye Protection:CHEMICAL GOGGLES.

Other Protective Equipment:FACILITIES STORING OR UTILIZING THIS
MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY
SHOWER.

Supplemental Safety and Health

FIRST AID CONT: INHALATION: GET MEDICAL ATTENTION IMMEDIATELY. REMOVE
FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE
ARTIF

ICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GE
T MEDICAL AID. DO NOT USE MOUTH-TO-MOUTH RESPIRATION. IF BRATHING
HAS CEASED APPLY ARTIFICIAL RESPIRATION USING OXYGEN

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

HCC:F2

Boiling Pt:=56.2C, 133.2F

Melt/Freeze Pt:=59.8C, 139.6F

Vapor Pres:180 MM HG

Vapor Density:2.0

Spec Gravity:0.79

pH:7

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

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS
LIQUID, ACETONE-LIKE ODOR.

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

Stability Indicator/Materials to Avoid:YES

ACIDS (MINERAL, NON-OXIDIZING, E.G. HYDROCHLORIC ACID, HYDROFLUORIC
ACID, MURIATIC ACID, PHOSPHORIC ACID), ACIDS (MINERAL, OXIDIZING,
ELGL CHROMIC ACID, HYPOCHLOROUS ACID, NITRIC ACID, SULFURIC ACID),
ACIDS (ORGANIC, E.G. A

Stability Condition to Avoid:HIGH TEMPERATURES, IGNITION SOURCES,
TEMPERATURES ABOVE 220 C.

Hazardous Decomposition Prod

ucts:CARBON MONOCIDE, IRRITATING AND TOXIC
FUMES AND GASES, CARBON DIOXIDE.
Conditions to Avoid Polymerization:HAS NOT BEEN REPORTED.

===== Toxicological Information =====

Toxicological Information:CAS# 67-64-1. LD50/LC50: DERMAL, GUINEA PIG:
LD50 = >9400 MICROLITER/KG; DRAIZE TEST, RABBIT, EYE: 20 MG SEVERE;
DRAIZE TEST, RABBIT, EYE: 20 MG/24H MODERATE; DRAIZE TEST, RABBIT,
SKIN: 500 MG/24H MIL D; INHALATION, MOUSE: LC50 = 44 GM/M3/4H;
INHALATI
ON, RAT: LC50 = 50100 MG/M3/8H; ORAL, MOUSE: LD50 = 3
GM/KG; ORAL, RABBIT: LD50 = 5340 MG/KG;ORAL, RAT: LD50 = 5800
MG/KG; REPRODUCTIVE EFFECTS: TDLO(ORAL, RAT) = 273
GM/KG;REPRODUCTIVE - PATERNAL EFFECTS - SPERMATOGENESIS (INCL.
GENETIC MATERIAL, SPERM MORPHOLOGY, MOTILITY, AND COUNT).
NEUROTOXICITY: NO INFO AVILABLE. MUTAGENICITY:SEX CHROMOSOME LOSS
AND NONDISJUNCTION= 47600 PPM;

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

Ecological:ECOTOXI
CITY: RAINBOW TROUT LC50=5540 MG/L/96H SUNFISH (TAP
WATER), DEATH AT 14250 PPM/24H MOSQUITO FISH (TURBID WATER)
TLM=13000 PPM/48HCAS# 67-64-1:LC50 (96HR.) RAINBOW TROUT = 5540
MG/L; STATIC COND ITIONS, 11-13 DEGREES CLC50 (96HR) FATHEAD MINNOW
= 7280-8120 MG/L; FLOW-THROUGH CONDITIONSLC50 (96HR) BLUEGILL =8300
MG/L. IF RELEASED ON SOIL, ACETONE WILL BOTH VOLATILIZE AND LEACH
INTO GROUND,& RE ADILY BIODEGRADES. IF RELEASED INTO WATER, ACETONE
WILL PROBABLY BIODEGRADE.
ABSORPTION TO SEDIMENT SHOULD NOT BE
SIGNIFICANT. IN THE ATMOSPHERE , ACETONE WILL BE LOST BY PHOTOLYSIS
& BY REACTION WITH HYDOXYL RADICALS.

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

Waste Disposal Methods:CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER
A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. US EPA
GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40
CFR PARTS 261.3. ADDIT IONALLLY, WASTE GENERATORS MUST CONSULT

STATE AND LOCAL HAZARDOUS WASTE REGULATION TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

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

Transport Information:US DOT: SHIPPING NAME: ACETONE, HAZARD CLASS: 3,
UN NUMBER:UN 1090, PACKING GROUP:II,

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

SARA Title III Information:SECTION 302 (RQ) CAS# 67-64-1: FINAL RQ =
5000 POUNDS (2270 KG). SEC 302 (TPQ): NONE. SARA CODES CAS #
67-64-1: ACU

TE, CHRONIC, FLAMMABLE, SUDDEN RELEASE OF PRESSURE.

311: NO CHEMICALS ARE REPORTABLE UNSEC 313. 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. CLEAN WATER
ACT: NOT LISTED AS HAZARDOUS SUBSTANCE, PRIORITY POLLUTANTS & TOXIC
POLLUTANT UNDER CWA.

Federal Regulatory Information:TSCA: CAS# 67-64-1 IS LISTED ON THE TSCA
INVENT

ORY. OSHA: NONE OF THE CHEMICALS IN THIS PRODUCT ARE
CONSIDERED HIGHLY HAZARDOUS BY OSHA.

State Regulatory Information:CAS# 67-64-1 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.
CANADA: CAS 67-64-1 IS LISTED ON CANADA'S DSL/NDL LIST. THIS
PRODUCT HAS A WHMIS CLASSIFICATION OF B2, D2B., AND IS ALSO LIS
TED
ON CANADA'S INGREDIENT DISCLOSURE LIST.

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

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ional advice to verify and
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