



OSHA Vacated PELS:  
Acetone: 750 ppm TWA; 1800 mg/m<sup>3</sup> TWA  
Personal Protective Equipment  
Eyes: Wear chemical goggles.  
Skin: Wear appropriate protective gloves to prevent skin exposure.  
Clothing: Wear appropriate protective clothing to prevent skin exposure.  
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Liquid  
Color: colorless  
pH: 7  
Vapor Pressure: 180 mm Hg  
Evaporation Rate: 2.0 (Air=1)  
Boiling Point: Not available  
Freezing/Melting Point: -139.6 deg F  
Solubility in water: Soluble  
Specific Gravity/Density: 0.79 (Water=1)  
Molecular Formula: C<sub>3</sub>H<sub>6</sub>O  
Molecular Weight: 58.08

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability: Stable; temperature in closed containers under normal storage and handling conditions.  
Conditions to Avoid: High temperatures, ignition sources, temperatures above 220°C.  
Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.  
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#: CAS# 67-64-1: AL3150000  
LD50/LC50: CAS# 67-64-1: Dermal, Guinea pig: LD50 = >9400 ul/kg; Draize test, rabbit, eye: 10 ul; Mild, rabbit, eye: 20 mg Severe; Draize test, rabbit, eye: 20 mg/24H Moderate; Draize test, rabbit, eye: 20 mg/24H Moderate; Mouse LC50 = 14 gm/kg; Inhalation rat: LD50 = 5010 mg/330L; Oral, rat: LD50 = 5800 mg/kg; Oral, rabbit: LD50 = 5340 mg/kg; Oral, rat: LD50 = 5800 mg/kg.  
Carcinogenicity: Acetone - ACGIH: A4 - Not Classifiable as a Human Carcinogen  
Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: TDLo(Oral, rat) = 273 gm/kg; Reproductive - Paternal Effects - spermatogenesis (incl. genetic material, sperm morphology, motility, and count).  
Neurotoxicity: No information available.  
Mutagenicity: No information available.  
Sex chromosome loss and nondisjunction (Yeast cerevisiae) = 47600 ppm; Cytogenetic analysis (Rodent - hamster fibroblasts) = 40 gm/L.  
Other: Standard Draize Test: Administration onto the skin (human) = 500 mg/7days (Mild). Standard Draize Test: Administration onto the skin (rabbit) = 500 mg/24H (Mild). Standard Draize Test (Eye, Rabbit) = 20 mg; Severe.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity: Material Safety Data Sheet Brown trout: Rainbow trout LC50=5540 mg/L/96H Sunfish (tap water), death at 14250 ppm/24H Mosquito fish (turbid water) TLm=13000 ppm/48H Cas# 67-64-1: LC50 (96Hr.) Rainbow trout = 5340 mg/L; Static conditions, 11-13 degrees C LC50 (96Hr) Bluegill = 2280-8120 mg/L; Flow-through conditions LC50 (96Hr) Bluegill = 8300 mg/L  
Other: For more information, see "HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA."

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. The classification determination is listed in US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: CAS# 67-64-1: waste number U002 (Ignitable waste).

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT Shipping Name: ACETONE  
Hazard Class: 3  
UN Number: UN1090  
Packing Group: II  
Canadian TDG Shipping Name: ACETONE  
Hazard Class: 3  
UN Number: UN1090  
Other Information: FLASHPOINT -20 C

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

US FEDERAL TSCA CAS# 67-64-1 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules Section 12b: The chemicals in this product are under a Chemical Test Rule. CAS# 67-64-1: 4/12b TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA.

SARA CERCLA Hazardous Substances and corresponding RQs CAS# 67-64-1: 5000 lb final RQ; 2270 kg final RQ Section 302: Extremely Hazardous Substances None of the chemicals in this product have a TPQ. SARA Codes CAS # 67-64-1: acute, chronic, flammable. Section 313 No chemicals are reportable under Section 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: Chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE Acetone can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, California No Significant Risk Level; None of the chemicals in this product are listed. European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: Xi F Risk Phrases: R 11 Highly flammable. R 36 Irritating to eyes. R 66 Repeated exposure may cause skin dryness or cracking. R 67 Vapors may cause drowsiness and giddiness.

S 9 Keep container in a well-ventilated place.  
S 16 Keep away from sources of ignition - No  
Smoking in case of contact with eyes, rinse immediately  
with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS# 67-64-1: 0

United Kingdom Occupational Exposure Limits  
CAS# 67-64-1: OES-United Kingdom, TWA 500 ppm TWA; 1210 mg/m3 TWA  
CAS# 67-64-1: OES-United Kingdom, STEL 1500 ppm STEL; 3620 mg/m3  
STEL

United Kingdom Maximum Exposure Limits

Canada

CAS# 67-64-1 is listed on Canada's DSL List.  
This product has a WHMIS classification of B2, D2B.  
CAS# 67-64-1 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 67-64-1: OEL-AUSTRALIA:TWA 500 ppm (1185 mg/m3); STEL 1000 ppm  
OEL-AUSTRIA:TWA 750 ppm (1780 mg/m3)  
OEL-BELGIUM:TWA 750 ppm (1780 mg/m3); STEL 1000 ppm  
OEL-CANADA:TWA 500 ppm (1185 mg/m3); STEL 1500 ppm  
OEL-CZECHIA:TWA 250 ppm (600 mg/m3)  
OEL-DENMARK:TWA 250 ppm (600 mg/m3)  
OEL-ENGLAND:TWA 500 ppm (1200 mg/m3); STEL 625 ppm (1500 mg/m3)  
OEL-FRANCE:TWA 750 ppm (1800 mg/m3)  
OEL-GERMANY:TWA 1000 ppm (2400 mg/m3)  
OEL-HUNGARY:TWA 600 mg/m3; STEL 1200 mg/m3  
OEL-INDIA:TWA 750 ppm (1780 mg/m3); STEL 1000 ppm (2375 mg/m3)  
OEL-JAPAN:TWA 200 ppm (470 mg/m3)  
OEL-THE NETHERLANDS:TWA 750 ppm (1780 mg/m3); JAN9  
OEL-THE PHILIPPINES:TWA 1000 ppm (2400 mg/m3)  
OEL-SPAIN:TWA 200 ppm (470 mg/m3)  
OEL-SWEDEN:TWA 250 ppm (600 mg/m3); STEL 500 ppm (1200 mg/m3)  
OEL-SWITZERLAND:TWA 750 ppm (1780 mg/m3)  
OEL-TURKEY:TWA 1000 ppm (2400 mg/m3)  
OEL-UNITED KINGDOM:TWA 750 ppm (1810 mg/m3); STEL 1250 ppm  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACCIHL TLV  
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACCI TLV

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/26/1999 Revision #12 Date: 2/26/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. We do not warrant that the information is for any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

