

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Acetone

Catalog Numbers: A11 1, A11 20, A11 200, A11 4, A11-1, A11-20, A11-200, A11-4, A11S 4, A11S-4, A16P 4, A16P-4, A16S 20, A16S 20 001, A16S 4, A16S-20, A16S-4, A18 1, A18 20, A18 200, A18 200 001, A18 4, A18 500, A18-1, A18-20, A18-200 A18-4, A18-500, A18S 4, A18S-4, A18SK 4, A18SK-4, A18SS 200, A18SS 50, A18SS-115, A18SS-200, A18SS-30, A18SS-50, A19 1, A19 4, A19-1, A19-4, A20-1 A40 4, A40-4, A928 4, A929 4, A929-1, A929-4, A930-4, A946 4, A946-4, A949 1, A949 4, A949-1, A949-4, A949SK-1, A949SK-4, A949SS 115, A949SS 200, A949SS 30, A949SS 50, A949SS-11, A949SS-115, A949SS-20, A949SS-200, A949SS-30, A949SS-50, HC 300 1GAL, S70090, S70091, S70091-1

Synonyms: Dimethylformaldehyde, dimethyl ketone, 2-propanone, pyroacetic acid, pyroacetic ether

Company Identification:

Generic Chemicals
10 Park Avenue
Anywhere Idaho 11111

For information, call: 111-111-1111	Emergency Number: 222-222-2222
For CHEMTREC assistance, call: 800-424-9300	

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	Einecs#
67-64-1	2-propanone	99	200-662-2

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Colorless, highly volatile liquid with a sweetish odor. Danger! Extremely flammable liquid FP=-4F (-20C). Causes irritation to eyes, skin, and respiratory tract. Causes central nervous system depression. May cause liver and kidney damage. Toxic effects are enhanced by ethanol.

Target Organs: Kidneys, central nervous system, liver, respiratory system.

Potential Health Effects

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.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation. May cause liver and kidney damage. May cause motor incoordination and speech abnormalities.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation may cause effects similar to those of acute inhalation.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. 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.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively. No specific antidote exists.

SAMPLE ACETONE MSDS, Chemical Hygiene Plan Manual

SECTION 5 - FIRE FIGHTING MEASURES

General Information: Containers may build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool.

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.

Autoignition Temperature: 33oF (0.56oC)

Flash Point: -4oF (-20.00oC)

Explosion Limits: Lower = 2.5; Upper = 12.8

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Wear appropriate protective clothing to minimize contact with skin. Remove all sources of ignition.

SECTION 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks or open flames.

Storage: Keep away from sources of ignition. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Exposure Limits

Chemical Name	ACGIH		NIOSH	OSHA final PELs
	750 ppm	100 ppm STEL	250 ppm TWA	1000 ppm TWA
2-propanone	1780	2380 mg/m3	590 mg/m3	2400 mg/m3
	mg/m3	STEL	TWA	TWA

OSHA Vacated PELs: 2-propanone: 750 ppm TWA; 1800 mg/m3 TWA; 1000 ppm STEL; 2400 mg/m3 STEL

Personal Protective Equipment

Eyes: Wear chemical goggles and face shield.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear polyethylene gloves, apron, and/or clothing.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1010.134. Always use a NIOSH-approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless, highly volatile liquid.
Odor	Sweetish
pH	7
Vapor Pressure	180 mm Hg
Vapor Density	2.0 (Air=1)
Evaporation Rate	7.7 (n-Butyl acetate=1)
Viscosity	Not available

Boiling Point	133.2oF
Freeze/Melt Point	-139.6oF
Decomp Temp	Not available
Solubility	Not available
Specific Gravity	0.79 (Water=1)
Molecular Formula	C3H6O
Molecular Weight	58.0414

SAMPLE ACETONE MSDS, Chemical Hygiene Plan Manual

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: High temperatures, temperatures above 220_C.

Incompatibilities with Other Materials: Forms explosive mixtures with hydrogen peroxide, acetic acid, nitric acid, nitric acid+sulfuric acid, chromic anhydride, chromyl chloride, nitrosyl chloride, hexachloromelamine, nitrosyl perchlorate, nitril perchlorate, permonosulfuric acid, thiodiglycol+hydrogen peroxide.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 67-64-1: AL3150000

LD50/LC50: CAS# 67-64-1: Inhalation, rat: LC50 =50100 mg/m³/8H; Oral, mouse: LD50 = 3 gm/kg; Oral, rabbit:

LD50 = 5340 mg/kg; Oral, rat: LD50 = 5800 mg/kg; Skin, rabbit: LD50 = 20 gm/kg.

Carcinogenicity: 2-propanone - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: Fertility: post-implantation mortality. Ihl, mam: TClO=31500 ug/m³/24H (1-13D preg)

Neurotoxicity: No information available.

Mutagenicity: Cytogenetic analysis: hamster fibroblast, 40 g/L, Sex chromosome loss/non-disjunction: S.cerevisiae, 47600 ppm

Other Studies: None.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Rainbow trout LC50=5540 mg/L/96H; Sunfish (tap water), death at 14250 ppm/24H; Mosquito fish (turbid water) TLm=13000 ppm/48H

Environmental Fate: Volatilizes, leeches, and biodegrades when released to soil.

Physical/Chemical: No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: Not listed.

RCRA D-Series Chronic Toxicity Reference Levels: Not listed.

RCRA F-Series: Not listed.

RCRA P-Series: Not listed.

RCRA U-Series: waste number U002 (Ignitable waste)

This material is banned from land disposal according to RCRA.

SECTION 14 - TRANSPORT INFORMATION

US DOT	IMO	IATA	RID/ADR	Canadian TDG
Shipping Name: ACETONE	Shipping Name: ACETONE	Shipping Name: ACETONE	Shipping Name: ACETONE	Shipping Name: ACETONE
Hazard Class: 3	Hazard Class: 3.1	Hazard Class: 3	Dangerous Goods Code: 3(3B)	Hazard Class: 3
UN Number: UN1090	UN Number: 1090	UN Number: 1090	UN Number: 1090	UN Number: UN1090
Packing Group: II	Packing Group: 2	Packing Group: 2		Other Information: FLASHPOINT -20 C

SECTION 15 - REGULATORY INFORMATION

A. Federal

TSCA	CAS# 67-64-1 is listed on the TSCA inventory. None of the chemicals are on the Health & Safety Reporting List. None of the chemicals in this product are under a Chemical Test Rule. None of the chemicals are listed under TSCA Section 12b. None of the chemicals in this material have a SNUR under TSCA.
CERCLA/SARA	None of the chemicals in this material have an RQ. None of the chemicals in this product have a TPQ. This material contains 2-propanone (CAS# 67-64-1, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
Clean Air Act	This material does not contain any hazardous air pollutants, any Class 1 Ozone depleters, nor any Class 2 Ozone depleters
Clean Water Act	None of the 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

Exposure Limits: 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 pp. OEL-CZECHOSLOVAKIA:TWA 800 mg/m3;STEL 4000 mg/m3. OEL-DENMARK:TWA 250 ppm (600 mg/m3). OEL-FINLAND: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-POLAND:TWA 200 mg/m3. OEL-RUSSIA:TWA 200 ppm;STEL 200 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 1000 ppm (2400 mg/m3);STEL 1250 ppm. OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV. OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

SECTION 16 - ADDITIONAL INFORMATION

Additional Information: No additional information available. MSDS Creation Date: November 1994. The information above is believed to be accurate and represents the best information currently available. However, no warranty is made of merchantability, or any other warranty, express or implied, with respect to such information, and no liability resulting from its use is assumed. Users must make their own investigations to determine the suitability of the information for their particular purposes