

Material Safety Data Sheet

Acetone ACS

ACC# 75004

Section 1 - Chemical Product and Company Identification

MSDS Name: Acetone ACS

Catalog Numbers: LC10420

Synonyms:

Company Identification:

Labchem Inc.

200 William Pitt Way

Pittsburgh, PA 15238

For information, call: 412-826-5230

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
67-64-1	Acetone	100	200-662-2

Hazard Symbols: None listed.

Risk Phrases: None listed.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless. Flash Point: -18 deg C. Warning! **Extremely flammable liquid**. May cause central nervous system depression. May cause eye and skin irritation.

Target Organs: None known.

Potential Health Effects

Eye: May cause moderate eye irritation.

Skin: May cause irritation and defatting.

Ingestion: Ingestion may include symptoms of restlessness, gastritis, vomiting, hematemesis, stupor, twitching, collapse, convulsions and paralysis.

Inhalation: Irritation of the throat and respiratory system, headache, drowsiness, weakness, confusion, nausea, intoxication leading to incoordination and coma.

Chronic: Prolonged skin contact may cause dryness, eczema, or dermatitis. Conjunctivitis and corneal erosion can occur from eye exposure.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin: Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion: Get medical aid at once. If victim is conscious, give 2-4 glasses of water and induce vomiting.

Inhalation: Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Firefighting Measures

General Information: Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Avoid breathing vapors, use approved respirator if necessary. Move container if possible, cool with flooding amounts of water. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Use flooding quantities of water as fog (streams may spread fire), cool all containers. Dangerous fire/negligible explosion hazard when exposed to heat or flame. Vapor-air mixtures explosive above flash point.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Section 6 - Accidental Release Measures

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

Spills/Leaks: Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Wear a self contained breathing apparatus and appropriate Personal protection. (See Exposure Controls, Personal Protection section). Shut off ignition source, avoid vapors. Isolate, ventilate spill area.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well ventilated area. Avoid breathing dust, vapor, mist, or gas. Vapors heavier than air.

Storage: Protect from heat and incompatibles. Store capped as a flammable liquid in safety cabinet or vault that is ventilated.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Ventilation equipment must be explosion-proof. Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Acetone	500 ppm; 750 ppm STEL	250 ppm TWA; 590 mg/m ³ TWA 2500 ppm IDLH (lower explosive level)	1000 ppm TWA; 2400 mg/m ³ TWA

OSHA Vacated PELs: Acetone: 750 ppm TWA; 1800 mg/m³ TWA

Personal Protective Equipment

Eyes: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin: Wear butyl rubber gloves, apron, and/or clothing.

Clothing: Wear butyl rubber gloves, apron, and/or clothing.

Respirators: Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. 5000ppm-GMOVc; 0ppm-GMOVfb/SAF/SCBAF; e- GMOV/SCBA.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Appearance: colorless

Odor: acetone-like

pH: Not available.

Vapor Pressure: 181 mm Hg @68 deg F

Vapor Density: 2.0

Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: 133 deg F

Freezing/Melting Point:-138 deg F

Decomposition Temperature:Not available.

Autoignition Temperature: 869 deg F (465.00 deg C)

Flash Point: -18 deg C (-0.40 deg F)

NFPA Rating: health-1; flammability-3; reactivity-0

Explosion Limits, Lower:2.6

Upper: 12.8

Solubility: Miscible.

Specific Gravity/Density:0.8

Molecular Formula:Not available.

Molecular Weight:Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, heat.

Incompatibilities with Other Materials: Permonosulfuric acid, potassium hypobromite, bromine trifluoride, dioxygen difluoride, nitrosyl and nitryl perchlorate, hydrogen peroxides, bromoform, chloroform, nitric acid, sulfuric acid, sulfur dichloride, bromine, platinum, sodium

hypoiodite, thiotriazolyl perchlorate, hexachloroamine, thiodiglycol, chromium trioxide, chromic anhydride, potassium t-butoxide.

Hazardous Decomposition Products: Oxides of carbon.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:

CAS# 67-64-1 unlisted.

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:

CAS# 67-64-1:

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Epidemiology: Acetone-- mild eye, mucous membrane and skin irritant and central nervous system depressant. Alcoholic beverages enhance effect, increasing exposure risk for persons with chronic respiratory or skin disease.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: No data available.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

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. 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

IATA

RID/ADR

IMO

Canada TDG

Shipping Name:	ACETONE
Hazard Class:	3
UN Number:	UN1090
Packing Group:	PG II

No information available.

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

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

CAS# 67-64-1: 4/12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 67-64-1: final RQ = 5000 pounds (2270 kg)

Section 302 (TPQ)

None of the chemicals in this product 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 Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain 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.

STATE

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.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 67-64-1: 0

Canada

CAS# 67-64-1 is listed on Canada's DSL List. CAS# 67-64-1 is listed on Canada's DSL List.

WHMIS: Not available.

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 pp OEL-CZECHOSLOVAKIA:TWA 800 mg/m³;STEL 4000 mg/m³ O

EL-DENMARK:TWA 250 ppm (600 mg/m³) OEL-FINLAND:TWA 500 ppm (1200 mg/m

3);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 120

0 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-P

OLAND: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:TW

A 750 ppm (1780 mg/m³) OEL-TURKEY:TWA 1000 ppm (2400 mg/m³) OEL-UNIT

ED KINGDOM:TWA 1000 ppm (2400 mg/m³);STEL 1250 ppm OEL IN BULGARIA, C

OLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE,

VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 11/12/1998

Revision #1 Date: 12/06/2000

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