

# MATERIAL SAFETY DATA SHEET

Acetone

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Acetone  
Product Code: A1496  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 5/23/2013  
Print Date: 5/23/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	3
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

## SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

DANGER!

Flammable liquid and vapor. Irritating to eyes and skin. May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

Appearance: Colorless  
Physical State: Liquid  
Odor: Sweet

Target Organs: Central nervous system (CNS), Eyes, Respiratory system, Skin, Kidney, Liver, spleen

Acute Effects Principle Routes of Exposure

Eyes: Irritating to eyes.

Skin: Irritating to skin. May be harmful in contact with skin. Repeated exposure may cause skin dryness or cracking.

Inhalation: Inhalation may cause central nervous system effects. May cause drowsiness and dizziness. May cause irritation of respiratory tract. May be harmful if inhaled.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

Chronic Effects: Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects.

Aggravated Medical Conditions: Central nervous system disorders. Preexisting eye disorders. Skin disorders. Kidney disorders. Liver disorders.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Acetone	CAS# 67-64-1	100%	V/V	OSHA TWA 1000 ppm (2400 mg/mf)

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**SECTION 4 FIRST AID MEASURES**

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

**SECTION 5 FIRE FIGHTING MEASURES**

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam

Fire / Explosion Hazards: Vapors can form explosive mixtures at temperatures at or above the flashpoint. Vapor may travel to source of ignition and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Eliminate Ignition Sources. Absorb with inert material. Place in container. Vent area and wash site.

Personal Precautions: Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions: Should not be released into the environment.

Methods for Containment and Clean Up: Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable and closed containers for disposal.

**SECTION 7 HANDLING AND STORAGE**

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

## Acetone

Acetone:  
ACGIH TLV  
TWA: 500ppm  
STEL: 750ppm

OSHA PEL  
TWA: 750ppm  
TWA: 1800 mg/m<sup>3</sup>  
STEL: 1000ppm  
STEL: 2400 mg/m<sup>3</sup>  
TWA: 1000ppm  
TWA: 2400 mg/m<sup>3</sup>

NIOSH IDLH  
IDLH: 2500ppm  
TWA: 250ppm  
TWA: 590 mg/m<sup>3</sup>

### Personal Protective Equipment

Eye/Face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-94° C	Percent Volatile by Volume:	100%
Boiling Point:	56° C	Evaporation Rate	> 1
Vapor Pressure:	184 mm Hg @ 20° C	Evaporation Standard	
Vapor Density:	2.0 (air = 1)	Auto Ignition Temp	N/A
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	2%
Appearance /Odors:	Clear liquid / mild odor	Upper Flamm. Limit in Air	13%
Flash Point:	-17° C		
Specific Gravity:	0.786		

### SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Moisture
Materials to Avoid:	Nitric Acid, Acetic Acid, Sulfuric Acid.
Hazardous Decomposition Products:	Toxic fumes of: Carbon Monoxide, Carbon Dioxide
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

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## SECTION 11 Toxicological Information

Acetone LD50 Oral 5800 mg/kg (Rat)

Irritation: Irritating to eyes and skin

Toxicologically Synergistic Products: Carbon tetrachloride; Chloroform; Trichloroethylene; Bromodichloromethane; Dibromochloromethane; N-nitrosodimethylamine; 1,1,2-Trichloroethane; Styrene; Acetonitrile, 2, 5-Hexanedione; Ethanol; 1, 2-Dichlorobenzene

Chronic Toxicity

Carcinogenicity: There are no known carcinogenic chemicals in this product.

Sensitization: No information available.

Mutagenic Effects: Mutagenic effects have occurred in experimental animals.

Reproductive Effects: Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects: Developmental effects have occurred in experimental animals

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Other Adverse Effects: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Endocrine Disruptor Information: No information available.

## SECTION 12 Ecological Information

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Freshwater Fish: Leuciscus idus: LC50 = 11300 mg/L/48h Salmo gaidneri: LC50 = 6100 mg/L/24h

Microtox:n EC50 = 14500 mg/L/15 min

Water Flea: EC50 = 39 mg/L/48h EC50 = 12700 mg/L/48h EC50 = 12600 mg/L/48h

Persistence and Degradability: Readily biodegradable.

Bioaccumulation/Accumulation: No information available.

Mobility: component/ Acetone log Pow / -0.24

## SECTION 13 Disposal Considerations

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 Transport Information

DOT Classification: Acetone, 3, UN1090, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

## SECTION 15 Regulatory Information

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard: YES

Chronic Health Hazard: NO

Fire Hazard: YES

Sudden Release of Pressure Hazard: NO

Reactive Hazard: NO

Clean Water Act: not applicable

Clean Air Act: not applicable

OSHA: not applicable

CERCLA: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability ACT (CERCLA) (40 CFR 302)

California Proposition 65: This product does not contain any Proposition 65 chemicals.

Canada:

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This product has been classified in accordance with the hazard criteria of the CRP and the MSDS contains all the information required by the CPR

WHMIS Hazard Class:  
B2 Flammable Liquid  
D2B Toxic Material

**SECTION 16 Additional Information**

Flammability

Health

Reactivity

**Revisions**

**NFPA**

0.1

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