

# Acetone

## **SECTION 1. IDENTIFICATION**

**Product Identifier** Acetone

Other Means of Identification

Dimethyl Ketone, Dimethyl Formaldehyde, Propanone, Propan-2-one

AC4110, AC4120, AC4121, AC4140, AC4150, AA1596 Product Code(s)

**Product Family** Organic

Recommended Use Laboratory and industrial solvent.

Restrictions on Use None known.

Supplier Identifier Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

Emergency Phone No. CANUTEC CANADA, 613-996-6666, 24 Hours

SDS No. 0017

**Date of Preparation** July 06, 2015

## SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Flammable liquid - Category 2; Skin irritation - Category 3; Eye irritation - Category 2B; Specific target organ toxicity (single exposure) - Category 3

### **Label Elements**





Signal Word: Danger

Hazard Statement(s):

Highly flammable liquid and vapour.

Causes mild skin irritation. Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary Statement(s):

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Other Hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	
Acetone	67-64-1	> 99	Dimethyl Ketone, Dimethyl Formaldehyde, Propanone	

### **SECTION 4. FIRST-AID MEASURES**

#### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

#### Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

#### **Eye Contact**

Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

### Ingestion

NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim rinse mouth with water again. Immediately obtain medical attention. Specific treatment is required.

#### **First-aid Comments**

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

### Most Important Symptoms and Effects, Acute and Delayed

Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

### Immediate Medical Attention and Special Treatment

## **Special Instructions**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

Water is not effective for extinguishing a fire. It may not cool product below its flash point.

### Specific Hazards Arising from the Product

May travel a considerable distance to a source of ignition and flash back to a leak or open container. Can be ignited by static discharge. Even dilute solutions in water may be flammable.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; very toxic, flammable formaldehyde.

### Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a protected, explosion-resistant location or maximum distance possible. Stop leak before attempting to put out the fire. Product could form an explosive mixture and reignite. If the leak cannot be stopped, let the fire burn itself out. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Remove or isolate incompatible materials as well as other hazardous materials. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

#### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Stop or reduce leak if safe to do so. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: contact emergency services and manufacturer/supplier for advice.

### **SECTION 7. HANDLING AND STORAGE**

## Precautions for Safe Handling

Do not breathe in this product. Prevent skin contact. Only use where there is adequate ventilation. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Electrically bond and ground equipment. Ground clips must contact bare metal. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system).

### Conditions for Safe Storage

Store in an area that is: cool, well-ventilated, out of direct sunlight and away from heat and ignition sources. Store in a closed container. Clear of combustible and flammable materials (e.g. old rags, cardboard). Electrically bond and ground containers. Ground clips must contact bare metal. Avoid bulk storage indoors.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGI	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Acetone	250 ppm A4	500 ppm A4	750 ppm				

Consult local authorities for provincial or state exposure limits.

## Appropriate Engineering Controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

#### **Individual Protection Measures**

### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: butyl rubber, Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), polyethylene, polyvinyl alcohol, Trellchem® HPS, Trellchem® VPS, Tychem® BR/LV, Tychem® Responder, Tychem® TK.

## Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge, wear a NIOSH approved air-purifying respirator with an appropriate cartridge, wear a powered air-purifying respirator with an appropriate cartridge.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Basic Physical and Chemical Properties**

Appearance Colourless volatile liquid.

Odour Fruity
Odour Threshold Not available

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Hq Not available

Melting Point/Freezing Point -94.7 °C (-138.5 °F) (melting); -94 °C (freezing)

Initial Boiling Point/Range 56.1 °C

-20 °C (closed cup) Flash Point **Evaporation Rate** > 1 (n-butyl acetate = 1)

Flammability (solid, gas) Not available

Upper/Lower Flammability or

12.8% (upper); 2.5% (lower)

**Explosive Limit** 

Vapour Pressure 180 mm Hg

Vapour Density (air = 1) 2.9

Relative Density (water = 1) 0.791 at 20 °C

Solubility Soluble in all proportions in water

Partition Coefficient, -0.24

n-Octanol/Water (Log Kow)

465 °C **Auto-ignition Temperature Decomposition Temperature** Not available

Viscosity 0.40 centistokes at 20 °C (kinematic); 0.32 centipoises at 20 °C (dynamic)

Other Information

**Physical State** Liquid Molecular Weight 58.08

## **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

Not reactive under normal conditions of use.

## **Chemical Stability**

Normally stable.

## Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Sunlight. High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

#### Incompatible Materials

Reducing agents (e.g. hydroquinone), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid), halogenated compounds (e.g. trichloroethylene), inorganic acids (e.g. hydrofluoric acid), organic acids (e.g. acetic acid).

## **Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

## Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

## **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Acetone	16000 mg/m3 (rat) (4-hour exposure)	7400 mg/kg (rat)	20,000 mg/kg (rabbit)

#### Skin Corrosion/Irritation

Animal tests show very mild irritation.

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### Serious Eye Damage/Irritation

Animal tests show serious eye irritation.

## STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause depression of the central nervous system.

#### Skin Absorption

No information was located.

#### Ingestion

Irritation of the mouth, throat and stomach, harmful effects on the liver.

### **Aspiration Hazard**

May cause lung damage if aspirated based on existing animal tests and physical and chemical properties.

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

No data available. Conclusions cannot be drawn from the limited studies available.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Acetone		Not Listed		Not Listed

Conclusions cannot be drawn from the limited studies available.

## Reproductive Toxicity

## **Development of Offspring**

No information was located.

### Sexual Function and Fertility

No information was located.

#### Effects on or via Lactation

No information was located.

#### **Germ Cell Mutagenicity**

No information was located.

#### Interactive Effects

No information was located.

### **SECTION 12. ECOLOGICAL INFORMATION**

This section is not required by OSHA HCS 2012. This section is not required by WHMIS.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Bury in a licensed landfill or burn in an approved incinerator according to federal, provincial/state, and local regulations.

### SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1090	Acetone	3	П

Environmental

Not applicable

Hazards

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Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

B2 - Flammable Liquid; D2B - Toxic (Eye irritant)

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

### **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 2 Flammability - 3

SDS Prepared By Alphachem Limited (905)-821-2995

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Disclaimer The information in this document is offered only as a guide in the safe handling of the above

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reliance on any information herein.

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