

Safety Data Sheet

Acetone

Section 1. Identification

Common name : Acetone

Synonym :

Material uses : Solvent

CAS : 67-64-1

Supplier / Manufacturer:

Solution Chemco Inc.

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Thetford Mines
Québec, Canada, G6H 3B1
Phone: 418-338-0517
www.solutionschemco.com

In case of emergency:

CANUTEC : (613) 996-6666

Poison Control Centres : (800) 463-5060

Section 2. Hazards identifications

Classification :



Flammable liquid, Category 2

Skin irritation, Category 3

Eye irritation, Category 2A

Specific target organ toxicity - Single exposure (Narcotic effects), Category 3

Signal word : Danger

Hazard statements:

H225 : Highly flammable liquid and vapour.

H316 : Causes mild skin irritation.

H319 : Causes serious eye irritation.

H336 : May cause drowsiness or dizziness.

Precautionary statements:

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 : Keep container tightly closed.

P240 : Ground/bond container and receiving equipment.

P241 : Use explosion-proof electrical/ventilating/light/.../equipment.

P242 : Use only non-sparking tools.

P243 : Take precautionary measures against static discharge.

P261 : Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 : Wash exposed and/or contaminated area thoroughly after handling.

P271 : Use only outdoors or in a well-ventilated area.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P312 : Call a POISON CENTER or doctor if you feel unwell.

P332+P313 : If skin irritation occurs: Get medical advice/attention.

P337+P313 : If eye irritation persists get medical advice/attention.

P370+P378 : In case of fire: Use ... to extinguish.

P403+P233 : Store in a well ventilated place. Keep container tightly closed.

P403+P235 : Store in a well ventilated place. Keep cool.

P501 : Dispose of contents / container by a local waste disposal company according to regional regulations.

Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Acetone	67-64-1	100

Section 4. First aid measures

Description of first aid if required:

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

Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

Skin contact:

Wash exposed and/or contaminated area thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Inhalation:

Bring the conscious victim to fresh air. Avoid breathing dust/fumes/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Ingestion:

Do NOT induce vomiting.

Indication of immediate medical attention and special treatment needed, if necessary:

Do not give anything by mouth to an unconscious victim. See a doctor.

Section 5. Fire fighting measures

Flammability of the product :

Flammable

Flash point :

-20°C / -4°F

Auto-ignition temperature :

465°C / 869°F

Products of combustion :

Carbon oxides

Special protective actions for fire-fighters :

Wear self-contained breathing apparatus and appropriate protective clothing.

Suitable extinguishing media :

Water spray, Carbon dioxide, Foam, Dry Chemical, Do not use water jet.

Lower limit of explosivity :

2%

Upper limit of explosivity :

13%

Section 6. Accidental release measures

Keep the area well ventilated. eliminate sources of ignition.

Personal precautions, protective equipment and emergency procedures:

For non emergency personnel: Evacuate the area.

For emergency personnel: Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

Environmental precautions:

Do not let product enter drains

Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and storage**Precautions in Handling:**

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

Precautions in Storage:

Keep container tightly closed in a cool, dry and well-ventilated place.

Section 8. Exposure Controls, Personal Protections**Control parameters:**

Component	CAS	Value	Control parameters	Basis
Acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	750 ppm	OSHA
		TWA	250 ppm	NIOSH
		TWA	500 ppm	CNESST
		STEL	1000 ppm	CNESST
		DIVS	2500 ppm	CNESST

Engineering controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal protective equipment:

Eyes: Wear safety glasses.

Skin/body: Wear a lab coat or any other appropriate protective clothing.

Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

Hands: Wear chemical resistant protective gloves.

Section 9. Physical and chemical properties

Physical state: Liquid

Color: Clear

Odour: Pungent

Melting point/Freezing point: -94°C / -137.2°F

Boiling point: 56°C / 132.8°F

Appearance: Clear

Lower explosion limit: 2%

Upper explosion limit: 13%

Flash point: -20°C / -4°F

Auto-ignition temperature: 465°C / 869°F

Decomposition temperature: Data not available

pH: Data not available

Solubility: Complete

Density: 0.79

VOC: 0 gr/l

Section 10. Stability and reactivity

Chemical reactivity: Stable under recommended storage conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: May ignite if heated strongly.

Reactivity conditions: Excess heat, incompatible materials

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents, bases, strong reaction to phosphorus oxychloride

Hazardous decomposition products: Carbon oxides

Products of combustion: Carbon oxides.

Section 11. Toxicological information

Acute toxicity :

Component	CAS	Value
Acetone	67-64-1	DL ₅₀ Oral : Rat = 5800 mg/kg DL ₅₀ Oral : Mouse = 3000 mg/kg DL ₅₀ Oral : Rabbit = 5340 mg/kg DL ₅₀ Cutaneous : Rabbit = 15760 mg/kg DL ₅₀ Cutaneous : Guinea pig > 7407 mg/kg CL ₅₀ Inhalation : Rat - = 50100 mg/m ³ 8h CL ₅₀ Inhalation : Mouse - = 44000 mg/m ³ 4h

Skin corrosion/irritation :

May cause mild skin irritation.

Serious eye damage/irritation :

May cause eye irritation.

Respiratory or skin sensitisation :

Not applicable

Gem cell mutagenicity :

Not applicable

Carcinogenicity :

Not applicable

Reproductive toxicity :

Not applicable

STOT- Single exposure :

May cause drowsiness or dizziness.

STOT- repeated exposure :

Not applicable

Aspiration hazard :

Not applicable

Information on likely route of exposure :

Section 12. Ecological information

Ecological data for aquatic environments :

Component	CAS	Value
Acetone	67-64-1	CL ₅₀ - Oncorhynchus mykiss (rainbow trout) 5540 mg/L - 96h CL ₅₀ - Daphnia magna 8800 mg/L - 48h

Persistence and degradability :

Easily biodegradable

Bioaccumulative potential :

Does not bioaccumulate.

Mobility in soil :

No data available


Other adverse effects :


No data available


Section 13. Disposal considerations**Waste disposal :**


Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

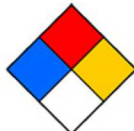
Section 14. Transportation information

TDG		
UN # : UN 1090	Proper shipping name : Flammable liquids, N.O.S. (Acetone)	
Class : 3	Packing group : II	

DOT		
UN # : UN 1090	Proper shipping name : Flammable liquids, N.O.S. (Acetone)	
Class : 3	Packing group : II	

IMDG			
UN # : UN 1090	Proper shipping name : Flammable liquids, N.O.S. (Acetone)		EMS-No :
Class : 3	Packing group : II		

IATA		
UN # : UN 1090	Proper shipping name : Flammable liquids, N.O.S. (Acetone)	
Class : 3	Packing group : II	

Section 15. Regulatory information**NFPA Classification :**

Health : 1
 Flammable : 3
 Reactivity : 0
 Specials conditions : 0

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

Section 16. Additional information

Date of issue :

2018-06-01

Version :

1.00

Elaborated by :

Solutions Chemco

Notice to reader :

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Références :

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) <http://www.hc-sc.gc.ca/a>*