



Univar USA Inc Safety Data Sheet

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515
(425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call
Chemtrec - (800) 424-9300



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425-889-3400

SAFETY DATA SHEET

1. Identification

Product identifier: ~ACETONE

Other means of identification

Synonyms: Dimethylketone
CAS NUMBERS: 67-64-1
SDS number: 000100000097

Recommended use and restriction on use

Recommended use: Reserved for industrial and professional use.

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

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call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Specific Target Organ Toxicity - Single Exposure Category 3

Serious Eye Damage/Eye Irritation Category 2A

Label Elements

Hazard Symbol



Signal Word

Danger

Hazard Statement

Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/eye protection/face protection.

Response

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a closed container. Store in well-ventilated place. Store in a dry place.

Disposal

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Acetone		67-64-1	99 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures

General information: Get medical advice/attention.
Ingestion: DO NOT induce vomiting. Get medical attention immediately. Never give liquid to an unconscious person.
Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention.
Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Most important symptoms/effects, acute and delayed
Symptoms: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards:	Fight fire from a protected location. Wear self-contained breathing apparatus and protective clothing.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	Use: Alcohol resistant foam. Carbon dioxide or dry powder.
Unsuitable extinguishing media:	No data available.
Specific hazards arising from the chemical:	Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.
Special protective equipment and precautions for firefighters	
Special fire fighting procedures:	Vapors are heavier than air and may spread near ground to sources of ignition.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep unauthorized personnel away.
Methods and material for containment and cleaning up:	All equipment used when handling the product must be grounded. Eliminate sources of ignition. Absorb spillage with non-combustible, absorbent material.
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Flammable/combustible - Keep away from oxidizers, heat and flames.

Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Acetone	TWA	750 ppm 1,800 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	1,000 ppm 2,400 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	5,900 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	590 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	2,500 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	250 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	Ceiling	3,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA PEL	500 ppm 1,200 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	750 ppm 1,780	US. California Code of Regulations,

		mg/m3	Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	750 ppm	US. ACGIH Threshold Limit Values (03 2013)
	TWA	500 ppm	US. ACGIH Threshold Limit Values (03 2013)
	TWA	200 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2013)
	STEL	500 ppm	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values (03 2013)
	REL	250 ppm	590 mg/m3 US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm	2,400 mg/m3 US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	1,000 ppm	2,400 mg/m3 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	750 ppm	1,800 mg/m3 US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Acetone (acetone: Sampling time: End of shift.)	50 mg/l (Urine)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

Use explosion-proof ventilation equipment to stay below exposure limits. Provide adequate ventilation. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information:

Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Use personal protective equipment as required.

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection:	Chemical resistant gloves	Chemical resistant gloves.
Other:	Chemical resistant clothing	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.	
Hygiene measures:	Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke.	

9. Physical and chemical properties

Physical state:	liquid
Form:	liquid
Color:	Clear colorless
Odor:	Characteristic
Odor threshold:	No data available.
pH:	7
Melting point/freezing point:	-94 °C
Initial boiling point and boiling range:	56 °C
Flash Point:	-18 °C
Evaporation rate:	5.6 n-butyl acetate=1
Flammability (solid, gas):	Flammable liquid
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	12.8 %(V)
Flammability limit - lower (%):	2.96 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	24.225 kPa (20 °C)
Vapor density:	2 AIR=1
Relative density:	0.79
Solubility(ies)	
Solubility in water:	(20 °C) Miscible with water.
Solubility (other):	The product is soluble in water.
Partition coefficient (n-octanol/water):	-0.24
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

Other information

Minimum ignition temperature: 540 °C

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Stable
Possibility of hazardous reactions: Stable
Conditions to avoid: Keep away from heat, sparks and open flame.
Incompatible Materials: Oxidizers, acids
Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LC 50 (Rat): > 5,000 mg/kg Not classified for acute toxicity based on available data.

Dermal

Product: LD 50 (Rabbit): 5,000 mg/kg
Not classified for acute toxicity based on available data.

Inhalation

Product: LC 50 (Rat, 4 h): 20 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: (Rabbit, 24 h): Moderate skin irritation

Serious Eye Damage/Eye Irritation

Product: Draize (Rabbit): Causes serious eye irritation.

Respiratory or Skin Sensitization

Product: Not a skin sensitizer.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l

Aquatic Invertebrates

Product: EC 50 (Water flea (Daphnia magna), 48 h): 12,100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: EC 50 (Water Flea, 14 d): 3,020 mg/l

Toxicity to Aquatic Plants

Product: EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product: 91 % (28 d) Readily biodegradable

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Bioconcentration Factor (BCF): 0.69 Potential to bioaccumulate is low.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: -0.24

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Acetone No data available.

13. Disposal considerations

Disposal instructions:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number: UN 1090
UN Proper Shipping Name: ACETONE
Transport Hazard Class(es)
Class: 3
Label(s): 3
Packing Group: II
Marine Pollutant: Not regulated.
Special precautions for user: -

IMDG

UN Number: UN 1090
UN Proper Shipping Name: ACETONE
Transport Hazard Class(es)
Class: 3
Label(s): 3
EmS No.: F-E, S-D
Packing Group: II
Marine Pollutant: Not regulated.

Special precautions for user: -

IATA

UN Number: UN 1090
Proper Shipping Name: ACETONE
Transport Hazard Class(es):
Class: 3
Label(s): 3
Packing Group: II
Environmental Hazards: Not regulated.
Special precautions for user: -
Other information
Passenger and cargo aircraft: Allowed.
Cargo aircraft only: Allowed.

15. Regulatory information

US Federal Regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Acetone Reportable quantity: 5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	RQ
Acetone	5000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Acetone	500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Acetone Listed

US. Massachusetts RTK - Substance List

Acetone Listed

US. Pennsylvania RTK - Hazardous Substances

Acetone Listed

US. Rhode Island RTK

Acetone Listed

Inventory Status: Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	On or in compliance with the inventory
Ontario Inventory:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

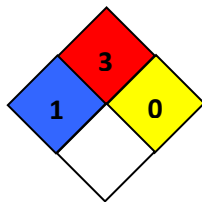
HMIS Hazard ID

Health	*	2
Flammability		3
Physical Hazards		0
PERSONAL PROTECTION		B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	06/26/2018
Revision Date:	No data available.
Version #:	1.2
Further Information:	No data available.

Univar USA Inc Safety Data Sheet

For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

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