



Univar
3075 Highland Pkwy STE 200
Downers Grove, IL 60515
425-889-3400

SAFETY DATA SHEET

1. Identification

Product identifier: ACETONE

Other means of identification

Synonyms: Dimethylketone

SDS number: 000100000097

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Emergency telephone number: For emergency assistance Involving chemicals

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

Serious eye damage/eye irritation Category 2A

Environmental hazards

Acute hazards to the aquatic environment Category 3

Label elements

Hazard symbol



Signal word

Danger

Version: 1.8
Revision date: 04/20/2015



Hazard statement	Highly flammable liquid and vapor. Aspiration hazard if swallowed - can enter lungs and cause damage. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Harmful to aquatic life.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
Response	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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use ... to extinguish.
Storage	Store in a closed container. Store in well-ventilated place. Store in a dry place.

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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	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

Ingestion: Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.

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.

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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: No data available.

5. Fire-fighting measures

General fire hazards: Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use: Carbon dioxide, dry powder, foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Flammable liquid. Forms explosive mixtures with air over a wide range. Vapors are heavier than air and may travel to a source of ignition and flash back. Combustion produces toxic gases and irritants including carbon monoxide and oxides of sulfur.

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.

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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. Dike for later disposal.

7. Handling and storage

Precautions for safe handling: Flammable/combustible - Keep away from oxidizers, heat and flames. Use only in well-ventilated areas. Avoid breathing dust/fume/gas/mist/vapors/spray. Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities: Flammable liquid storage. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep container tightly closed in a cool, well-ventilated 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/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	1,000 ppm 2,400 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)

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	ST ESL	5,900 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	590 µg/m ³	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/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	750 ppm 1,780 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	TWA	500 ppm	US. ACGIH Threshold Limit Values (03 2013)
	STEL	750 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)

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	REL	250 ppm	590 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm	2,400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	750 ppm	1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm	2,400 mg/m ³	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.

Eye/face protection:

Contact lenses should not be worn when working with this chemical! Wear safety glasses with side shields (or goggles). Use face shield in case of splash risk.

Skin protection

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Hand protection:	Chemical resistant gloves.
Other:	No data available.
Respiratory protection:	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Hygiene measures:	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

9. Physical and chemical properties

AppearancePhysical state:	Liquid
Form:	No data available.
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	-95 °C
Initial boiling point and boiling range:	56.5 °C
Flash Point:	-20 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.

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Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical stability: No data available.
Possibility of hazardous reactions: No data available.
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: Not classified for acute toxicity based on available data.

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Dermal**Product:**

Not classified for acute toxicity based on available data.

Inhalation**Product:**

No data available.

Specified substance(s):

Acetone

LC 50 (Rat,): 76 mg/l (, No) 2 (reliable with restrictions) LC 50 (Rat, 4 h): 76 mg/l

Repeated dose toxicity**Product:**

No data available.

Skin corrosion/irritation**Product:**

No data available.

Serious eye damage/eye irritation**Product:**

No data available.

Specified substance(s):

Acetone

Exposure for 15 minutes to 1660 ppm causes irritation of eyes

Respiratory or skin sensitization**Product:**

No data available.

Carcinogenicity**Product:**

No data available.

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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.

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Acetone LC 50 (Fathead minnow (Pimephales promelas), 0.5 h): 7,830 - 9,337 mg/l
Mortality LC 50 (Fathead minnow (Pimephales promelas), 2 h): 7,081 - 9,120 mg/l
Mortality LC 50 (Zebra danio (Danio rerio), 2 h): > 100 mg/l
Mortality LC 50 (Zebra danio (Danio rerio), 2 h): > 100 mg/l
Mortality LC 50 (Fathead minnow (Pimephales promelas), 4 h): 9,821 - 11,014 mg/l
Mortality

Aquatic invertebrates**Product:** No data available.**Specified substance(s):**

Acetone EC 50 (Water flea (Daphnia magna), 2 h): > 100 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 4 h): > 100 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 6 h): > 100 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): 21.3 - 35.5 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 24 h): > 100 mg/l Intoxication

Chronic hazards to the aquatic environment:**Fish****Product:** No data available.**Aquatic invertebrates****Product:** No data available.**Toxicity to Aquatic Plants**

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Product: No data available.

Persistence and degradability

Biodegradation

Product: No data available.

BOD/COD ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: No data available.

Partition coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Acetone 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: No data available.

Contaminated packaging: No data available.

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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.

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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

Not listed.

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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.

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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

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Inventory Status: Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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

HMIS Hazard ID

Health	*	2
Flammability		3
		0
PERSONAL PROTECTION		B

B - Safety Glasses & Gloves

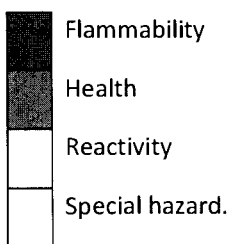
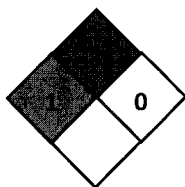
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health

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effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date: 04/20/2015
Revision date: No data available.
Version #: 1.8
Further information: No data available.

Univar USA Inc Material Safety Data Sheet

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

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