

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Aceton

Revision date: 11/27/2025

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1. Identification

Product identifier

Aceton

Further trade names

Aceton

order number 92004510 - 1 L

Substance name: acetone; propan-2-one; propanone

CAS No: 67-64-1

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Reagents and laboratory chemicals

Restricted to professional users.

Details of the supplier of the safety data sheet

Manufacturer

Company name: ATM Qness GmbH
Street: Emil-Reinert-Straße 2
Place: D-57636 Mammelzen
Telephone: +49 (0) 2681 95390
E-mail: info@qatm.com
Contact person: info@qatm.com

Importer/Only Representative

Company name: Verder Scientific Inc.
Street: 11 Penns Trail
Place: USA- Newtown, PA 18940
Telephone: +1 866-473-8724
E-mail: info-us@verder-scientific.com

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Category 2

Serious eye damage/eye irritation: Category 2

Specific target organ toxicity single exposure: Category 3 (narcotic effects)

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

Highly flammable liquid and vapor

Causes serious eye irritation

May cause drowsiness or dizziness

Precautionary statements

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

Keep container tightly closed.

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Precautionary statements

Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
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.
In case of fire: Use sand, earth, extinguishing powder or foam to extinguish.
Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of waste according to applicable legislation.

Hazards not otherwise classified

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

3. Composition/information on ingredients

Mixtures

Relevant ingredients

CAS No	Components	Quantity
67-64-1	acetone; propan-2-one; propanone	100 %

4. First-aid measures

Description of first aid measures

General information

First aider: Pay attention to self-protection!
When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). When in doubt or if symptoms are observed, get medical advice.

Most important symptoms and effects, both acute and delayed

Dizziness, Narcotic effects, Vomiting

Indication of any immediate medical attention and special treatment needed

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Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.
In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Pyrolysis products, toxic

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
Ventilate affected area.

Other information

Use only non-sparking tools.
Clean contaminated articles and floor according to the environmental legislation.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes.
Use personal protection equipment.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

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Vapors may form explosive mixtures with air. Use only non-sparking tools.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect against: Heat

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
67-64-1	Acetone	1000	2400	TWA (8 h)	PEL
		250	590	TWA (8 h)	REL
		250	594	TWA (8 h)	ACGIH-2025
		500	1187	STEL (15 min)	ACGIH-2025

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
67-64-1	ACETONE	Acetone	25 mg/L	urine	End of shift

Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Handling larger quantities: Use suitable eye protection. EN ISO 16321 (EN 166)

Hand protection

Handling larger quantities: Wear suitable gloves. (EN ISO 374)

Suitable material: FKM (fluoro rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time: >= 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation

Thermal hazards

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Flame-retardant protective clothing. Wear anti-static footwear and clothing

Environmental exposure controls

Avoid release to the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	like: Acetone
Odour threshold:	not determined
Melting point/freezing point:	-94,7 °C
Boiling point or initial boiling point and boiling range:	55 °C
Flammability:	Highly flammable
Lower explosion limits:	2,6 vol. %
Upper explosion limits:	13 vol. %
Flash point:	-19 °C
Auto-ignition temperature:	465 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	5 - 6
Viscosity / kinematic:	not determined
Water solubility:	miscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapor pressure (at 20 °C):	233 hPa
Density:	0,790 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

Other information**Information with regard to physical hazard classes**

Explosive properties

Vapors may form explosive mixtures with air.

Further Information

No information available.

10. Stability and reactivity

Reactivity

Highly flammable

Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: May occur

Vapors may form explosive mixtures with air.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Pyrolysis products, toxic

11. Toxicological information

Route(s) of Entry

oral, Skin contact, Eye contact.
aerosol or mist formation: Inhalation

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 5800 mg/kg	Rat	ECHA	
	dermal	LD50 7400 mg/kg	Rabbit	ECHA	
	inhalation (4 h) vapour	LC50 > 20000 mg/l	Rat	ECHA	

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (acetone; propan-2-one; propanone)

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): No ingredient of this mixture is listed.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No information available.

12. Ecological information

Ecotoxicity

The product is not: Ecotoxic.

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Persistence and degradability

The product has not been tested.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Collect the waste separately. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101

<u>UN number or ID number:</u>	UN 1090
<u>Proper shipping name:</u>	ACETONE
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II
Hazard label:	3



Special Provisions:	IB2, T4, TP1
Limited quantity:	60 L

Marine transport (IMDG)

<u>UN number or ID number:</u>	UN 1090
<u>UN proper shipping name:</u>	ACETONE
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II
Hazard label:	3



Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

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Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1090
UN proper shipping name: ACETONE
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No
Marine pollutant: -

Special precautions for user

Warning: Flammable liquids! Vapors may form explosive mixtures with air.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National Inventory TSCA

CAS No.: 67-64-1: listed

National regulatory information

SARA Section 304 CERCLA:
Acetone (67-64-1): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:
Acetone (67-64-1): Fire hazard, Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

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Abbreviations and acronyms

CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
OSHA: Occupational Safety and Health Administration
UN: United Nations
ACGIH: American Conference of Governmental Industrial Hygienists
ATE: Acute Toxicity Estimates
BCF: Bio-Concentration Factor

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PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short-Term Exposure Limit
TWA: Time Weighted Average
VOC: Volatile Organic Compounds
DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)
EN: European Standard
ISO: International Organization for Standardization
IUCLID: International Uniform Chemical Information Database
LC50: Lethal Concentration, 50 %
LD50: Lethal Dose, 50 %
LL50: Lethal Loading, 50 %
OECD: Organisation for Economic Co-operation and Development
EC50: Effective Concentration 50 %
EL50: Effect Loading, 50 %
ErC50: Effective Concentration 50 %, growth rate
NOEC: No Observed Effect Concentration
DGR: Dangerous Goods Regulations
DOT: Department Of Transportation
EmS: Emergency Schedules
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IE: Industrial Emissions
IMDG: International Maritime Code for Dangerous Goods
LQ: Limited Quantity
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
TI: Technical Instructions
IARC: International Agency for Research on Cancer
NFPA: National Fire Protection Association
NTP: National Toxicology Program
SARA: Superfund Amendments and Reauthorization Act
TSCA: Toxic Substances Control Act

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.
Observe in addition any national regulations!

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)