

according to Regulation (EC) No 1907/2006

Aceton HPLC mind. 99,8 % isocratic grade

Revision date: 22.04.2024

Product code: 12410

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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REACH Registration Number:	01-2119471330-49-XXXX
CAS No:	67-64-1
Index No:	606-001-00-8
EC No:	200-662-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemical Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street: Place:	ACD Stempelstraße 6 D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	• •	REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:







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Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Precautionary statemen	its
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store in a well-ventilated place. Keep container tightly closed.

P403+P233

2.3. Other hazards

F

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C3H6O
Molecular weight:	58,08 g/mol

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
67-64-1	acetone	acetone		
	200-662-2 606-001-00-8 01-2119471330-49-XXXX			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits. M-factors and ATE

CAS No	AS No EC No Chemical name		Quantity
Specific Conc. Limits, M-factors and ATE			
67-64-1	7-64-1 200-662-2 acetone		100 %
dermal: LD50 = > 7426 mg/kg; oral: LD50 = 5800 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an



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ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant, Dizziness, Anaesthetic state Vomiting, Headache, Dizziness Gastrointestinal complaints, Corneal opacity. Has degreasing effect on the skin. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquid. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Beware of reignition.

5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Danger of bursting container. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.



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Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Keep away from food, drink and animal feedingstuffs.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme.



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Wash hands and face before breaks and after work and take a shower if necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. storage temperature: +5°C - +30°C

Further information on storage conditions

Keep cool. Protect from sunlight.

Protect against: Light

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-64-1	Acetone	Acetone	50 mg/L	Urine	End of shift

DNEL/DMEL values

CAS No	Substance				
DNEL type	EL type Exposure route Effect Value			Value	
67-64-1	acetone				
Worker DNEL,	orker DNEL, long-term inhalation systemic 1210 mg/m ³				
Worker DNEL,	EL, acute inhalation local 2420 mg/m ³				
Worker DNEL,	Worker DNEL, long-term dermal systemic 186 mg/kg bv			186 mg/kg bw/day	
Consumer DN	EL, long-term	inhalation	systemic	200 mg/m³	
Consumer DN	EL, long-term	dermal	systemic	62 mg/kg bw/day	
Consumer DN	EL, long-term	oral	systemic	62 mg/kg bw/day	

PNEC values

CAS No	Substance		
Environment	Environmental compartment Value		
67-64-1	acetone		
Freshwater		10,6 mg/l	
Freshwater (intermittent releases) 21 mg/l			
Marine wate	Marine water 1,06 mg/l		
Freshwater sediment 30,4 mg/kg			
Marine sediment		3,04 mg/kg	
Micro-organisms in sewage treatment plants (STP)		100 mg/l	
Soil		29,5 mg/kg	

8.2. Exposure controls



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Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Face protection umbrella

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 897 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Take off immediately all contaminated clothing. Wash hands before breaks and after work. Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: AX The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	fruity
Melting point/freezing point:	

-95,4 °C



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Boiling point or initial boiling point and	56,2 °C			
boiling range:				
Flammability:	not applicable			
	not applicable			
Lower explosion limits:	2,15 vol. %			
Upper explosion limits:	13 vol. %			
Flash point:	<-20 °C			
Auto-ignition temperature:	465 °C			
Decomposition temperature:	No data available			
pH-Value (at 20 °C):	5-6 (395 g/l)			
Viscosity / kinematic:	No data available			
Water solubility:	very soluble			
Solubility in other solvents				
No data available				
Partition coefficient n-octanol/water:	log Pow: -0,23			
Vapour pressure:	240 hPa			
(at 20 °C)				
Vapour pressure:	No data available			
Density:	0,79 g/cm³			
Bulk density:	No data available			
Relative vapour density:	No data available			
9.2. Other information				
Information with regard to physical hazard classes	3			
Explosive properties				
Vapours can form explosive mixtures with air.				
Sustaining combustion:	Sustaining combustion			
Self-ignition temperature				
Solid:	not applicable			
Gas:	not applicable			
Oxidizing properties No data available				
Other safety characteristics				
Evaporation rate:	No data available			
Solvent separation test:	No data available			
Solvent content:	100 Na data available			
Solid content: Sublimation point:	No data available No data available			
Softening point:	No data available			
Pour point:	No data available			
No data available:				
Viscosity / dynamic:	0,32 mPa·s			
(at 20 °C)	0,02 m a s			
Flow time:	No data available			
Further Information				
No data available				
SECTION 10: Stability and reactivity	SECTION 10: Stability and reactivity			
Section for stasing and feasibility				

10.1. Reactivity

Highly flammable.

Vapours can form explosive mixtures with air.

10.2. Chemical stability



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Protect against: Light Air

10.3. Possibility of hazardous reactions

Ignition hazard: Fluorine, Oxidising agent, strong; Reducing agent, strong; Nitric acid Danger of explosion: Chloroform, peroxides, for example hydrogen peroxide Exothermic reaction with: Bromine, Alkali metals Hydrogen halide, Sulphur dichloride

10.4. Conditions to avoid

Heat Light Air

10.5. Incompatible materials

Rubber articles Plastic articles

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
67-64-1	acetone					
	oral	LD50 mg/kg	5800	Rat		Undiluted acetone applied to female rats
	dermal	LD50 mg/kg	> 7426		Toxicol Appl Pharmacol 7: 559-565. (1965	other: Code of federal regulations: 21 C

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.

Repeated exposure may cause skin dryness or cracking.

Has degreasing effect on the skin.

Repeated exposure may cause skin dryness or cracking.

Sensitising 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.



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STOT-single exposure

May cause drowsiness or dizziness. (acetone)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience No data available

11.2. Information on other hazards

Other information

No data available

Further information

Irritant, Dizziness, Anaesthetic state Vomiting, Headache, Dizziness Gastrointestinal complaints, Corneal opacity. Has degreasing effect on the skin. Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
67-64-1	acetone							
	Acute fish toxicity	LC50 mg/l	8120	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203	
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978)	The toxicity of acetone towards daphnids	
	Crustacea toxicity	NOEC mg/l	2212	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310	Study conducted comparable to OECD 211 w	
	Acute bacteria toxicity	EC50 mg/l()	61150	,	activated sludge of a predominantly domestic sewag	Water Res 26: 887-892 (1992)	ISO 8192	

12.2. Persistence and degradability

91 %; 28 d

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone	-0,23



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CAS No	Chemical name	BCF	Species	Source
67-64-1	acetone	3		Unpublished calculat

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

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

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1090
14.2. UN proper shipping name:	ACETONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 1090
14.2. UN proper shipping name:	ACETONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1090



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14.2. UN proper shipping name:	ACETONE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	ll		
Hazard label:	3		
Special Provisions:	-		
Limited quantity:	1L		
Excepted quantity:	E2		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1090		
14.2. UN proper shipping name:	ACETONE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label: Limited quantity Passenger:	3 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		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user			
Warning: Combustible liquid.			
14.7. Maritime transport in bulk according to	MO instruments		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	ations/legislation specific for the substance or mixture		
EU regulatory information			
Restrictions on use (REACH, annex XVII):			
Entry 3, Entry 40			
Information according to Directive	P5c FLAMMABLE LIQUIDS		
2012/18/EU (SEVESO III):			
Marketing and use of explosives precursors (Regulation (EU) 2019/1148):			
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant			
	eported to the relevant national contact point.		
Additional information			
This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).			
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile	
Water hazard class (D):	1 - slightly hazardous to water		

SECTION 16: Other information



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Abbreviations and acronyms

Flam. Liq: Flammable liquid Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.