

according to Regulation (EC) No 1907/2006

Acetophenone technical grade

Revision date: 17.05.2023

Product code: 25163

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

1.1. Product identifier

Acetophenone technical grade

CAS No:	98-86-2
Index No:	606-042-00-1
EC No:	202-708-7

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:	Stempelstraße 6	
Place:	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,
number:	1-800-424-9300 Outside USA and C	REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls
	accepted)	

Further Information

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 4; H302 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

Warning

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling acetophenone

Signal word:







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Hazard statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

Precautionary statements

P280	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P330	Rinse mouth.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C8H8O
Molecular weight:	120,15 g/mol

Hazardous components

CAS No	Chemical name		Quantity	
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
98-86-2	acetophenone			100 %
	202-708-7	606-042-00-1		
	Acute Tox. 4, Eye Irrit. 2; H302 H319			

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

Specific Conc. Limits, M-factors and ATE				
CAS No	EC No	Chemical name	Quantity	
	Specific Conc.	Limits, M-factors and ATE		
98-86-2	202-708-7	acetophenone	100 %	
	dermal: LD50 =	= 3300 mg/kg; oral: LD50 = 2081 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 doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

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



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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 ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

Irritant

Unconsciousness

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

Co-ordinate fire-fighting measures to the fire surroundings.

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

5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus. Move undamaged containers from immediate hazard area if it can be done safely.

Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures 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.

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.



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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

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). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. 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. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. storage temperature: 15°C - 20°C

Hints on joint storage

TRGS 510

Further information on storage conditions

Store in a dry place.

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
98-86-2	Acetophenone	10	49		TWA (8 h)	



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
98-86-2	acetophenone			
Worker DNEL	, long-term	inhalation	systemic	22 mg/m³
Worker DNEL	., long-term	dermal	systemic	6,3 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	5,4 mg/m³
Consumer DN	IEL, acute	inhalation	systemic	21,7 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	3,1 mg/kg bw/day
Consumer DN	IEL, acute	dermal	systemic	6,25 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	3,1 mg/kg bw/day
Consumer DN	IEL, acute	oral	systemic	6,25 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental compartment Value		Value	
98-86-2	acetophenone		
Freshwater		0,086 mg/l	
Freshwater (intermittent releases) 0,864 mg/l			
Marine water 0,009 mg/l		0,009 mg/l	
Freshwater sediment 0,178 mg/kg		0,178 mg/kg	
Marine sediment 0,018 mg/kg		0,018 mg/kg	
Micro-organisms in sewage treatment plants (STP) 10 mg/l		10 mg/l	
Soil		0,155 mg/kg	

8.2. Exposure controls

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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with permanent contact: >480min

By short-term hand contact Trade name/designation KCL 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): >240



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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

Wear suitable protective clothing.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A-(P2)

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour threshold:	No data available	
Melting point/freezing point:		20 °C
Boiling point or initial boiling point and		202 °C
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		1,4
Upper explosion limits:		5,2
Flash point:		82 °C
Auto-ignition temperature:		535 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		No data available
Water solubility:		No
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapour pressure:		0,45 hPa
(at 20 °C)		
Vapour pressure:		0,45 hPa
(at 50 °C)		1.00
Density:		1,03 g/cm ³
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
Vanaura aan farm aynlaaiya miytura	s southly a fire	
Vapours can form explosive mixtures Sustaining combustion:	s with air.	No data available



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Solid:	not applicable	
Gas:	not applicable	
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	100%	
Solid content:	0	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
No data available:		
Viscosity / dynamic: (at 20 °C)	1,8 mPa·s	
Flow time:	No data available	
Further Information		
No data available		

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Alkali (lye) Reducing agent

10.4. Conditions to avoid

heat. Radiant heat.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire:

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful if swallowed.



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CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
98-86-2	acetophenone	acetophenone						
	oral	LD50 mg/kg	2081	Rat	Study report (1981)	OECD Guideline 401		
	dermal	LD50 mg/kg	3300	Rat	Other company data (1978)	OECD Guideline 402		

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

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

see also Section 4 May cause respiratory irritation.

Causes mild skin irritation.

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
98-86-2	acetophenone						
	Acute fish toxicity	LC50	162 mg/l	96 h	Pimephales promelas	Study report (1984)	OECD Guideline 203
	Acute algae toxicity	ErC50	40 mg/l		Pseudokirchneriella subcapitata	Study report (2003)	OECD Guideline 201
	Acute crustacea toxicity	EC50	528 mg/l	48 h	Daphnia magna	Environ Sci Technol 27: 2801-2806 (1993)	In the frame of determining body burden,

12.2. Persistence and degradability



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The product has not been tested.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
98-86-2	acetophenone	ca. 1,63 - ca.
		1,65

BCF

CAS No	Chemical name	BCF	Species	Source
98-86-2	acetophenone	0,475	fish	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.

The product has not been tested.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Do not empty into drains.

Further information

Avoid release to the environment.

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

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:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

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Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)			
National regulatory information				
Employment restrictions:	ployment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile' work protection guideline' (94/33/EC).			
Water hazard class (D):	1 - slightly hazardous to water			
15.2 Chemical safety assessment				

<u>15.2. Chemical safety assessment</u>

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

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% Acute Tox: Acute toxicity Eye Irrit: Eye irritation

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed. H319 Causes serious eye irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.