

Version: 2

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1 Product identifier

Product name: Acetic acid 6%
Registration number (REACH): not relevant (mixture)
Synonyms/Trade name: Essigsäure 6%

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

Relevant identified uses: Cleaning compound for optical lenses
 Laboratory and analytical use
Uses advised against: Do not use for private purposes (household).
 Do not use as food, drink and animal feedingstuffs. Do not use for products which come into contact with foodstuffs.

1.3 Details of the supplier of the safety data sheet

Company: MCAT GmbH
 Raiffeisenstrasse 35
 D-78166 Donaueschingen
 Tel: +49(0)771-92030800
 e-Mail: sicherheit@mcate.de
 Emergency Telephone: +49(0)1703802299

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
 not required

2.3 Other hazards

Results of PBT and vPvB assessment



This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Acetic acid	CAS No: 64-19-7 EC No: 200-580-7 Index No: 607-002-00-6 REACH Reg. No: 01-2119475328-30-xxxx	5,5-6,5	Flam. Liq. 3 / H226 Skin Corr. 1A / H314 Eye Dam. 1 / H318	 

Specific concentration limits:

Skin Corr. 1A; H314: $C \geq 90 \%$

Skin Corr. 1B; H314: $25 \% \leq C < 90 \%$

Skin Irrit. 2; H315: $10 \% \leq C < 25 \%$

Eye Dam. 1; H318: $C \geq 25 \%$

Eye Irrit. 2; H319: $10 \% \leq C < 25 \%$

4. FIRST AID MEASURES

4.1 Description of first aid measures



General notes:

No special measures are necessary.

Following inhalation:

Provide fresh air.

Following skin contact:

Rinse skin with water/shower.

Following eye contact:

Rinse cautiously with water for several minutes.

Following ingestion:

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

Water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Ingredients of the mixture combustible. The product itself does not burn.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

No special measures are necessary.

6.2 Environmental precautions

Keep away from drains, surface- and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15-25 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)										
Country	Name of agent	CAS number	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Source
EU	acetic acid	64-19-7	IOELV	10	25	20	50			2017/164/EU

Notation:

Ceiling-C: Ceiling value is a limit value above which exposure should not occur

STEL: Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA: Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Type of material:

NBR (Nitrile rubber)

Material thickness:

>0,11 mm

Breakthrough times of the glove material:

>480 minutes (permeation: level 6)

Other protection measures:

Take recovery periods for skin regeneration.
Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: E (against acidic gases like sulphur dioxide or hydrogen chloride, colour code: Yellow). Usually no personal respiratory protection necessary.

Environmental exposure controls

Keep away from drains, surface- and ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	non-combustible
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH (value) :	4-6 (20 °C)

Kinematic viscosity:	not determined
Dynamic viscosity:	not determined
Water solubility:	miscible in any proportion
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density:	1,003 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not relevant (liquid)
Oxidising properties:	none

9.2 Other information

Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Miscibility:	completely miscible with water

10. STABILITY AND REACTIVITY

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

certain glass coatings

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

11. TOXICOLOGICAL INFORMATION

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

Test data are not available for the complete mixture.

Classification procedure: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
acetic acid	64-19-7	oral	LD50	3310 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed: Data are not available.

If in eyes: Data are not available.

If inhaled: Data are not available.

If on skin: Data are not available.

Other information: Health effects are not known.

11.2 Endocrine disrupting properties

None of the ingredients are listed.

11.3 Information on other hazards

There is no additional information.

12. ECOLOGICAL INFORMATION
12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture				
Substance	Endpoint	Value	Species	Exposure time
acetic acid (CAS 64-19-7)	LC50	> 300,8 mg/l	fish	96 h
acetic acid (CAS 64-19-7)	EC50	> 300,8 mg/l	aquatic invertebrates	48 h
acetic acid (CAS 64-19-7)	ErC50	> 300,8 mg/l	algae	72 h

Biodegradation

Data are not available.

12.2 Persistence and degradability

Degradability of components of the mixture			
Substance	Process	Degradation rate	Time
acetic acid (CAS 64-19-7)	biotic/abiotic	99 %	30 d

12.3 Bioaccumulative potential

Bioaccumulative potential of components of the mixture		
Substance	BCF	Log KOW
acetic acid (CAS 64-19-7)	3,16	-0,17 (pH value: 7, 25 °C)

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

14. TRANSPORT INFORMATION

14.1 UN number:

not subject to transport regulations

14.2 UN proper shipping name:

not assigned

14.3 Transport hazard class(es):

none

14.4 Packing group

not assigned

14.5 Environmental hazards:

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION**List of relevant phrases (code and full text as stated in section 3)**

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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