

Safety data sheet
according to 1907/2006/EC, Article 31

TETENAL

Printing date 08.09.2021

version no: 10

Revision: 08.09.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**. **Trade name:** ACETIC ACID 60%. **Article number:** 102866, 102868. **Index number:**

None of the ingredients is listed.

. **UFI:** 72M1-8071-J00G-GKUM**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture

Auxiliary product for photographic processing

Chemicals for synthesis

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

TETENAL 1847 GmbH

Schützenwall 31-35

D-22844 Norderstedt /Germany

Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296

www.tetenal.com; E-mail: info@tetenal.com

. **Further information obtainable from:** Department product safety. E-Mail: sida@tetenal.com**1.4 Emergency telephone number:**

Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

Signal word Danger**Hazard statements**

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe vapours.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**. **PBT:** Not applicable.

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. vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterisation: Mixtures

. **Description:** Mixture of substances listed below and with nonhazardous additions.

. **Dangerous components:**

CAS: 64-19-7	acetic acid	~60%
EINECS: 200-580-7	⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	
Index number: 607-002-00-6		
Reg.nr.: 01-2119475328-30		

. **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information:**

Immediately remove any clothing/shoes soiled by the product.

Take affected persons out into the fresh air.

. **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

. **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

. **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

. **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

. 5.1 Extinguishing media

. **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

. 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

. 5.3 Advice for firefighters

. **Protective equipment:** Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

. 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Wear protective clothing.

. 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

. 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

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Dispose contaminated material as waste according to item 13.

Pick up mechanically.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 5-30°C

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

64-19-7 acetic acid (50-90%)

WEL (Great Britain) Short-term value: 50 mg/m³, 20 ppm
Long-term value: 25 mg/m³, 10 ppm

IOELV (EU) Short-term value: 50 mg/m³, 20 ppm
Long-term value: 25 mg/m³, 10 ppm

PEL (USA) Long-term value: 25 mg/m³, 10 ppm

REL (USA) Short-term value: 37 mg/m³, 15 ppm
Long-term value: 25 mg/m³, 10 ppm

TLV (USA) Short-term value: 15 ppm
Long-term value: 10 ppm

DNELs

64-19-7 acetic acid

Inhalative Akute /short-term exposure - local effects 25 mg/m³ (Worker (Arbeiter))

Long-term - local - effects 25 mg/m³ (Worker (Arbeiter))

Akute-lokale Effekte 25 mg/m³ (general population- Verbraucher)

Long-term - local effects 25 mg/m³ (general population- Verbraucher)

PNECs

64-19-7 acetic acid

Aquatic compartment - freshwater 3.058 mg/l (-)

Aquatic compartment - marine water 0.358 mg/l (-)

Aquatic compartment -water,intermittent releases 30.58 mg/l (-)

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Aquatic compartment -sediment in freshwater 11.36 mg/kg sed dw (-)

Aquatic compartment -sediment in marine water 1.136 mg/kg sed dw (-)

Terrestrial compartment -soil 0.478 mg/kg dw (Soil)

Sewage treatment plant (Abwasserreinigungsanlagen) 85 mg/l (-)

. **Additional information:** The lists valid during the making were used as basis.. **8.2 Exposure controls**. **Personal protective equipment:**. **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

. **Respiratory protection:** Ensure adequate ventilation. **Protection of hands:**

Protective gloves

Acid resistant gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

. **Penetration time of glove material**

Glove material breakthrough-time layer thickness

Butyl rubber: ≥480 min ≥0,4mm

Nitrile rubber: ≥480 min ≥0,38mm

Neoprene: ≥240 min ≥0,65mm

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

. **Eye protection:**

Tightly sealed goggles

. **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

. **9.1 Information on basic physical and chemical properties**. **General Information**. **Appearance:****Form:** Fluid**Colour:** Colourless

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. Odour:	Pungent
. pH-value at 20 °C:	~1.5
. Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>100 °C
. Flash point:	Not applicable.
. Auto-ignition temperature:	Product is not selfigniting.
. Explosive properties:	Product does not present an explosion hazard.
. Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
. Vapour pressure:	Not determined.
. Density at 20 °C:	1.03 g/cm ³
. Solubility in / Miscibility with water:	Fully miscible.
. Solvent content:	
Organic solvents:	60.0 %
Water:	25-50 %
VOC (EC)	60.00 %
. 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No further relevant information available.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- . **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . **10.6 Hazardous decomposition products:** Irritant gases/vapours

SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **LD/LC50 values relevant for classification:**
- 64-19-7 acetic acid**
- Oral LD50 3,310 mg/kg (rat)
- Dermal LD50 1,130 mg/kg (rabbit)
- Inhalative LC50 1 mg/l (mouse)
- . **Primary irritant effect:**
- . **Skin corrosion/irritation**
- Causes severe skin burns and eye damage.
- . **Serious eye damage/irritation**
- Causes serious eye damage.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Additional toxicological information:**
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- . **Carcinogenicity** Based on available data, the classification criteria are not met.
- . **Reproductive toxicity** 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.

SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:**
- 64-19-7 acetic acid**
- LC50 24 mg/l (daphnia magna (Water flea))
- 96 mg/l (fish)
- 96 mg/l (Lepomis macrochirus (Sonnenbarsch))
- 24 mg/l (fish: Pimephales promelas)
- . **12.2 Persistence and degradability** No further relevant information available.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Additional ecological information:**
- . **General notes:**
- Must not reach sewage water or drainage ditch undiluted or unneutralised.
- Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**
- Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- . **European waste catalogue**
- 07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES
- 07 07 00 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
- 07 07 99 wastes not otherwise specified
- 16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
- 16 03 00 off-specification batches and unused products
- 16 03 05* organic wastes containing hazardous substances
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.
- . **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- . **14.1 UN-Number**
- . **ADR, IMDG, IATA** UN2790

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. 14.2 UN proper shipping name	
. ADR	2790 ACETIC ACID SOLUTION
. IMDG, IATA	ACETIC ACID SOLUTION
. 14.3 Transport hazard class(es)	
. ADR	
. Class	8 (C3) Corrosive substances.
. Label	8

. IMDG, IATA	
. Class	8 Corrosive substances.
. Label	8
. 14.4 Packing group	
. ADR, IMDG, IATA	II
. 14.5 Environmental hazards:	
. Marine pollutant:	No
. 14.6 Special precautions for user	
. Hazard identification number (Kemler code):	Warning: Corrosive substances. 80
. EMS Number:	F-A,S-B
. Segregation groups	Acids
. Stowage Category	A
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
. Transport/Additional information:	

. ADR	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. Transport category	2
. Tunnel restriction code	E

. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
. UN "Model Regulation":	
UN 2790 ACETIC ACID SOLUTION, 8, II	

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

. Directive 2012/18/EU

. Named dangerous substances - ANNEX I None of the ingredients is listed.

. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

. Contact: E: sida@tetenal.com

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

*** Data compared to the previous version altered.**

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