

MATERIAL SAFETY DATA SHEET

ACETIC ACID 99.5%

Date of releasing: 15.02.2025

Date of reviewing: -

Version EN: 1.0



Material Safety Data Sheet in accordance with WE 1907/2006 of 18.12.2006 – REACH and 2020/878 of 18.06.2020.

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

- 1.1 Product identifier ACETIC ACID 99.5%
REACH registration number: 01-2119475328-30
CAS number: 64-19-7
Index number: 607-002-00-6
EC number: 200-580-7
- 1.2 Relevant identified uses of the substance or mixture and uses advised against.
Identified applications: Industrial use, professional use, consumer use. For use by qualified personnel only. Synthesis intermediate, cleaning/washing agents and additives, food/feedstuff additives, intermediates, laboratory chemicals, pH-regulating agents.
Advised against applications: none
- 1.3 Details of the supplier of the safety data sheet.
Distributor: TOMCHEM Sp. z o.o.
95-050 Konstancin Łódzki
ul. Niesięcin 5A
tel. 42 683-11-83
tel/fax.; 42-636-43-18
- 1.4 Emergency telephone number 112 (general emergency phone)

SECTION 2. Hazards identification.

2.1 Classification of the substance or mixture:

Classification and labelling have been determined in accordance with Regulation (EC) 1272/2008 (as amended). Product is classified as hazardous in accordance with Regulation (EC) 1272/2008.

Flammable liquid and vapour, Flam Liq. 3; H226
Causes severe skin burns and eye damage, Skin Corr. 1; H314

2.2 Label elements:

Pictogram:



Signal word: Danger

Hazard statements:

- H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P260 Do not breathe dust/vapours.
P264 Wash hands thoroughly after handling.

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- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 or doctor/physician.
- P321 Specific treatment (see instruction on this label)
- P370+P378 In case of fire: Use substances different than water for extinction.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container to a collection point for hazardous or special waste in accordance with local, regional, national and/or international regulations.

2.3 Other hazards:

May react violently with various materials (acids, base metals) with the release of hazardous substances (hydrogen).

Annex XIII of REACH Regulation – Criteria for identifying persistent, bioaccumulative and toxic substances (PBT) and very persistent and very bioaccumulative substances (vPvB) – not applicable.

Substances with endocrine disrupting properties (in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100, Commission Regulation (EU) 2018/605) – not applicable.

SECTION 3. Composition/information on ingredients

3.1 Substances.

Product identifier	Amount [%]	Hazard class and category codes	Hazard statement codes and supplementary statements	Specific concentration limit, M-factor, Acute toxicity estimate ATE
ACETIC ACID 99.5% REACH number: 01-2119475328-30 CAS number: 64-19-7 Index number: 607-002-00-6 EC number: 200-580-7	>99	Skin Corr. 1 Flam Liq. 3	H314 H226	10 ≤C < 25 Skin Irrit. 2, H315 10 ≤C < 25 Eye Irrit. 2, H319 25 ≤C < 90 Skin Corr. 1B, H314 90 ≤C < 100 Skin Corr. 1A, H314

Full text of H phrases in section 16.

*substance with a specific OEL value.

SECTION 4. First aid measures.

4.1 Description of first aid measures.

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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In case of skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.

In case of eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

In case of inhalation:

Remove victim to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

In case of swallowing:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Causes severe skin burns and eye damage.

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

No additional information.

SECTION 5. Firefighting measures.

5.1 Extinguishing media:

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Inappropriate extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance or mixture:

Flammable liquid and vapour. May form flammable/explosive vapor-air mixture.

5.3 Advice for firefighters:

Use water spray or fog to cool exposed containers. Use caution when fighting chemical fires. Do not allow water used to fight fires to enter (or be discharged into) the environment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

Remove all sources of ignition. Every effort should be made to avoid static electricity charges. No naked light is allowed. Smoking is prohibited. Emergency procedures: evacuate non-essential personnel. Equip the cleaning crew with appropriate protection. Keep a room ventilated.

6.2 Environmental precautions.

Do not allow to enter sewers or public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up.

Cover spilled material with inert solids such as clay or diatomaceous earth as soon as possible to absorb. Contain spill. Store away from other materials.

6.4 Reference to other sections.

Waste treatment – see section 13.

Personal protective equipment – see section 8.

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SECTION 7. Handling and storage.

7.1 Precautions for safe handling.

Use caution when handling empty containers as residual vapors are flammable. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Ensure good ventilation in work area to prevent formation of steam. No naked light. No smoking. Take precautions against static discharge. Use only non-sparking tools. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/breastfeeding. Wash hands, forearms and face thoroughly after use.

7.2 Conditions for safe storage, including any incompatibilities.

Proper grounding procedures must be followed to prevent the build-up of static electricity. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations. Store only in original packaging in a cool, well-ventilated place away from: Keep container tightly closed.

Incompatible products: Strong bases. Incompatible materials: Ignition sources. Direct sunlight. Heat sources.

7.3 Specific end use(s).

Uses according to section 1.2.

SECTION 8. Exposure controls/personal protection.

8.1 Control parameters:

Ensure adequate ventilation.

Maximum allowable concentration values:

Regulation of the Minister of the Family, Labour and Social Policy of 24 June 2024 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws item 1017, as amended).

Chemical name and CAS number	NDS [mg/m ³]	NDSch [mg/m ³]	NDSP [mg/m ³]	Notes: labeling of substances with the notation "skin"
Acetic acid [cas: 64-19-7]	25	50	-	-

DNEL and PNEC values.

DNEL/DMEL (Employees)

Acute - local effects, inhalation 25 mg/m³

Long-term - systemic effects, inhalation 25 mg/m³

Long-term - local effects, inhalation 25 mg/m³

DNEL/DMEL (General population)

Acute - local effects, inhalation 25 mg/m³

Long-term - local effects, inhalation 25 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 3,058 mg/l

PNEC aqua (marine water) 0,3058 mg/l

PNEC aqua (intermittent, freshwater) 30,58 mg/l

PNEC (Sediments)

PNEC sediment (freshwater) 1,36 mg/kg dry wt

PNEC sediment (marine water) 1,136 mg/kg dry wt

PNEC (Soil)

PNEC soil 0,478 mg/kg dry wt

PNEC (STP)

PNEC sewage treatment plant 85 mg/l

8.2 Exposure controls:

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Respiratory protection.

When OEL of ingredients is exceeded in work environment use individual respiratory protection equipment.



Hand protection.

Use chemical-resistant protective gloves.



Eye protection.

Wear safety glasses or face mask (compliant with EN 166).



Body protection.

Use protective work clothing.

SECTION 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties.

Physical state	liquid
Colour	colourless
Odour	acetic acid
Melting point/freezing point	16,64 °C
Boiling point or initial boiling point and boiling range	117,9 °C
Flammability	flammable liquid
Lower and upper explosion limit	Lower: 4%; Upper: 19,9%
Flash point	39°C
Auto-ignition temperature	463°C
Decomposition temperature	not applicable
pH	no data available
Kinematic viscosity	1,011 mm ² /s
Solubility	water: 602,9 g/l 25°C
Partition coefficient n-octanol/water (log value)	-0,17
Vapour pressure	20,79 hPa 25°C
Density and/or relative density	1,0446 g/cm ³ 25°C
Relative vapour density	no data available
Particle characteristics	not applicable

9.2 Other information:

Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable

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Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	flammable liquid
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidizing solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	not applicable

SECTION 10. Stability and reactivity.

10.1 Reactivity:

Thermal decomposition produces: corrosive fumes.

10.2 Chemical stability:

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3 Possibility of hazardous reactions:

Not established.

10.4 Conditions to avoid:

Direct sunlight. Extreme high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5 Incompatible materials:

Strong bases.

10.6 Hazardous decomposition products:

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition produces/generates: corrosive fumes.

SECTION 11. Toxicological information.

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

- | | |
|------------------------------|--|
| a) acute toxicity | Based on available data, the classification criteria are not met.
LD50 oral, rat 3310 mg/kg body weight
LD50 oral 4960 mg/kg body weight Animal: mouse. Remarks on results: other.
LC50 Inhalation - Rat [ppm] 16000 ppm/4h |
| b) skin corrosion/irritation | Causes severe skin burns. |

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- | | |
|--------------------------------------|---|
| c) serious eye damage/irritation | Causes eye damage. |
| d) respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| e) germ cell mutagenicity | Based on available data, the classification criteria are not met |
| f) carcinogenicity | Based on available data, the classification criteria are not met. |
| g) reproductive toxicity | Based on available data, the classification criteria are not met. |
| h) STOT-single exposure | Based on available data, the classification criteria are not met. |
| i) STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| j) aspiration hazard. | Based on available data, the classification criteria are not met. |

11.2 Information on other hazards.

Potential harmful effects on human health and possible symptoms: based on available data, the classification criteria are not met.

SECTION 12. Ecological information.

12.1 Toxicity:

LC50 - Fish [1] 300 mg/l

LC50 - Fish [2] > 300,82 mg/l Test organisms (species): *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)

EC50 - Crustaceans [1] 300 g/l

EC50 - Crustaceans [2] > 300,82 mg/l Test organisms (species): *Daphnia magna*

EC50 72h - Algae [1] > 1000 mg/l Test organisms (species): *Skeletonema costatum*

EC50 72h - Algae [2] > 300,82 mg/l Test organisms (species): *Skeletonema costatum*

12.2 Persistence and degradability:

No data available.

12.3 Bioaccumulative potential:

Partition coefficient n-octanol/water (Log Pow) -0.17.

Bioaccumulative potential: not established.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Does not meet PBT and vPvB criteria.

12.6 Endocrine disrupting properties:

No data available.

12.7 Other adverse effects:

Avoid release into the environment.

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SECTION 13. Disposal considerations.

13.1 Waste treatment methods.

Product/packaging disposal recommendations: dispose safely in accordance with local/national regulations. Dispose of contents/container to ...

Additional information: be careful when handling empty containers as residual vapours are flammable.

Ecology - waste: avoid release to the environment.

Law dated 8 January 2013 on waste. (Journal of Laws 2013 item 21 as amended).

Law dated 13 June 2013 on the management of packaging and packaging waste. (Journal of Laws 2013 item 888 as amended).

Regulation of the Minister of Climate of January 02, 2020 on the waste catalog (Journal of Laws 2020 item 10 as amended).

SECTION 14. Transport information.

14.1 UN number or ID number.

UN 2789

14.2 UN proper shipping name.

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14.3 Transport hazard class(es).

8(3)

14.4 Packing group.

II

14.5 Environmental hazards.

No

14.6 Special precautions for user.

No data available.

14.7 Maritime transport in bulk according to IMO instruments.

No data available.



SECTION 15. Regulatory information.

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 (REACH)

Law dated 24 October 2011 on the transport of hazardous materials (Journal of Laws 227 item 1367 of 2011, as amended),

Government Statement of 13 March 2023 on the entry into force of the amendments to Annexes A and B to the Agreement concerning the international carriage of dangerous goods by road (ADR), done at Geneva on 30 September 1957.

Law dated 8 January 2013 on waste. (Journal of Laws 2013 item 21 as amended)

Law dated 13 June 2013 on the management of packaging and packaging waste. (Journal of Laws 2013 item 888 as amended),

Announcement of the Minister of Health of 2 March 2015 on the announcement of the consolidated text of the Regulation of the Minister of Health on the labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of

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Laws 2015, item 450)

Law dated 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63 item 322, as amended),

Law dated 26 June 1974 Labour Code (consolidated text: Dz.U. 21 item 94 of 1998 as amended),

Regulation of the Minister of Family, Labour and Social Policy of 24 June 2024 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Item 1017 with later amendments).

Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of Laws 2020, item 10).

REACH Annex XVII (Restriction List)

No restrictions according to Annex XVII of the REACH Regulation

REACH Annex XIV (Authorisation List)

ACETIC ACID 99.5% is not listed on the Annex XIV list of the REACH Regulation

REACH Candidate List (SVHC)

ACETIC ACID 99.5% is not on the candidate list of the REACH Regulation

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Does not contain a substance subject to the Regulation of the European Parliament and of the Council European Parliament and Council Regulation (EU) 2019/1148 of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Does not contain substances subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and marketing of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.2 Chemical safety assessment.

A chemical safety assessment was carried out for the substance.

SECTION 16. Other information.

H phrases:

H314 Causes severe skin burns and eye damage.

H226 Flammable liquid and vapour.

Description of abbreviations, acronyms and symbols used:

Skin. Corr. 1A – Skin corrosive cat. 1A

Skin Corr. 1B – Skin corrosive cat. 1B

Falm. Liq 3 – Flammable liquid and vapour.

NDS – Maximum allowable concentration

NDSP – Maximum allowable ceiling concentration

NDSch – Maximum allowable momentary concentration.

DNEL – Level of exposure to a substance above which humans should not be exposed.

PNEC – concentration of chemical which marks the limit at which below no adverse effects of exposure in ecosystem are measured.

LC50 - (lethal concentration) - median lethal concentration, a statistically determined concentration of a substance, after exposure to which 50 percent of the organisms (exposed to the substance) can be expected to die during the exposure or during a specified contractual post-exposure period.

LD50 - (lethal dose) - medial lethal dose, the statistically determined size of a single dose of a substance, after administration of which 50% of exposed test organisms can be expected to die.

EC50 - (effective concentration) - medial effective concentration, statistically calculated concentration that induces in the environmental medium the specified effect in 50% of the experimental organisms under specified conditions

NOEC (no observed effects concentration) - the highest concentration for which there is no statistically or biologically significant increase in the frequency or severity of the effects of the substance in the test organisms relative to the control sample.

vPvB - Very persistent and very bioaccumulative substance

PBT - persistent, bioaccumulative and toxic substances

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ADR – European agreement on the road transport of hazardous goods.

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

IMDG – International Maritime Dangerous Goods Code

IATA – Regulation on the transport of dangerous goods issued by the International Air Transport Association

Trainings:

Before starting work with the product it is mandatory to subject employees to EHS training in connection with the presence of chemical factors in work environment. Conduct, document and familiarize employees with the results of the occupational risk assessment at the work station related to the presence of chemical factors.

SOURCE MATERIALS:

Annex to Regulation (EU) 2020/878 of 18 June 2020.

Regulations mentioned in section 15 of the MSDS.

Changes to the previous version:

Section	Description

The information contained in the safety data sheet applies only to the product listed in title. Data contained in safety data sheet should be treated only as an help for safe use of the product. Since conditions of storage, transport and use are beyond our control they cannot constitute a guarantee in the legal sense. In each case the statutory provisions and any rights of third parties must be observed. Safety data sheet does not constitute an assessment of hazards in the workplace. The product should not be used for purposes other than those specified in section 1 without prior consultation with TOMCHEM Sp. z o.o.

End of document.