

MATERIAL SAFETY DATA SHEET

ACETIC ACID 60%

Date of releasing: 15-11-2025

Date of revision: -

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 60%
UFI code: HR10-20KT-W000-26MD
- 1.2 Relevant identified uses of the substance or mixture and uses advised against.
Identified applications: Identified uses:
1. Production of acetic acid and use as an intermediate (SN1)
2. Distribution of acetic acid (SN2)
3. In the chemical industry as an intermediate – for the production of other chemical compounds (SN3)
4. Production of acetic acid solutions and their distribution (SN4)
5. Industrial agents for the tanning, textile, wood, paper, and metal industries (SN5)
6. Professional cleaning and disinfecting agents (SN6)
7. Consumer cleaning agents (SN7)
8. In the drilling industry (SN8)
9. Professional chemical and agricultural agents (SN9)
10. Laboratory reagents (SN11, SN12)
11. Industrial water treatment (SN13, SN14)
- Advised against applications: other than above.
- 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 has been classified as hazardous in accordance with Regulation (EC) 1272/2008.

Skin Corr. 1B; H314

2.2 Label elements:

Pictogram:



Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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

+P338 Continue rinsing.

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

2.3 Other hazards:

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

3.2 Mixtures.

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* CAS: 64-19-7 WE: 200-580-7 Index No: 607-002-00-6 REACH No: 01-2119475328-30-0034	59-61	Flam. Liq. 3 Skin Corr. 1A	H226 H314	Skin Corr. 1A; H314: C ≥90 % Skin Corr. 1B; H314: 25 % ≤ C <90 % Skin Irrit. 2; H315: 10 % ≤ C <25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %

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.

In case of skin contact:

Remove all contaminated clothing, wash skin with plenty of water. Apply a sterile dressing to the burned area. Do not use soap or any neutralizing agents. Contact a physician.

In case of eye contact:

Flush eyes with plenty of water for several minutes (approximately 15), holding eyelids wide open. Avoid strong water jets due to risk of corneal damage. Contact a doctor immediately.

In case of inhalation:

In case of dizziness or nausea take injured person to fresh air. If there is no rapid improvement seek medical advice.

In case of swallowing:

Give plenty of water to drink. Do not induce vomiting (risk of perforation), contact a doctor immediately. Do not give anything by mouth to an unconscious person.

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

Eye contact: Acetic acid vapors cause conjunctival redness, pain, and tearing of the eyes.

Respiratory system: Corrosive to the respiratory tract, causing coughing, throat burning, shortness of breath (glottis edema, bronchospasm), and hemoptysis. Toxic pulmonary edema may occur.

Gastrointestinal tract: In severe, extensive burns, shock, hemolysis, and kidney damage are possible. Complications: pneumonia and bronchitis, bleeding and/or perforation of the gastrointestinal tract, post-burn scarring with impaired function depending on the

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burn location. Damage to tooth enamel.

Skin contact: Causes severe burns. Prolonged skin irritation and dark discoloration may occur.

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

If swallowed, do not induce vomiting. Decision on the course of action will be made by a physician after assessing the injured person's condition.

SECTION 5. Firefighting measures.

5.1 Extinguishing media:

Suitable extinguishing media: dry chemical, carbon dioxide (carbon dioxide extinguisher), foam, water mist. Use extinguishing methods appropriate to the surrounding conditions.

Inappropriate extinguishing media: Strong water jets.

5.2 Special hazards arising from the substance or mixture:

During a fire, high temperatures release toxic decomposition products and vapors that form explosive mixtures with air. Vapors are heavier than air and accumulate near the ground.

5.3 Advice for firefighters:

Cool containers in the fire area with a water spray and, if possible, remove them from the danger zone. In case of a fire in an enclosed space wear protective clothing and a compressed air breathing apparatus. Do not allow extinguishing water to enter surface water, groundwater, or the sewage system.

SECTION 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel: inform appropriate authorities of the incident. Remove anyone not involved in incident from hazard area.

For emergency personnel: Ensure adequate ventilation and use personal protective equipment. Do not inhale vapors. Avoid contact with the product.

6.2 Environmental precautions.

Prevent spreading and entry into sewers and water bodies, inform local authorities if protection cannot be ensured.

6.3 Methods and material for containment and cleaning up.

Prevent spread and remove by collecting on absorbent material (sodium bicarbonate, diatomaceous earth, crushed mica). Place contaminated material in appropriately labelled containers for disposal in accordance with applicable regulations. Dike the spill area and pump out the liquid. Small amounts of low-concentration solutions can be neutralized with diluted alkali.

6.4 Reference to other sections.

Waste disposal – see section 13.

Personal protective equipment – see section 8.

SECTION 7. Handling and storage.

7.1 Precautions for safe handling.

Use adequate ventilation. Avoid eye contact. Avoid skin contact. Avoid spilling. Avoid ignition sources, high temperatures, hot surfaces, and open flames. Work in accordance with health and safety regulations: do not eat, drink, or smoke in the workplace, wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.

MATERIAL SAFETY DATA SHEET

ACETIC ACID 60%

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7.2 Conditions for safe storage, including any incompatibilities.

Store in a cool, dry, well-ventilated area (general and exhaust ventilation) in a properly labelled, closed original container. Warehouses designed for the storage of corrosive liquids should have easily washable and acid-resistant floors with internal plumbing and a separate sewage system. Avoid direct sunlight and heat sources, hot surfaces, and open flames. Store away from light metals, strong oxidizers, and strong bases.

7.3 Specific end use(s).

Uses as per section 1.2 – no additional recommendations.

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.

DN(M)EL for workers:

Inhalation (acute, local effect)

DNEL: 25 mg/m³ NOAEC: 25 mg/m³

Inhalation (long-term, local effect)

DNEL: 25 mg/m³ NOAEC: 25 mg/m³

PNEC water – 3,058 mg/L

PNEC soil – 0.478 mg/kg

PNEC STP – 0.85 mg/L

8.2 Exposure controls:

Appropriate engineering controls: general room ventilation and exhaust ventilation are necessary.



Respiratory protection.

Avoid inhaling product vapours. If occupational exposure limits are exceeded use personal respiratory protection – a mask or half-mask complete with a filter and vapour absorber type B or universal (class 2) in accordance with the EN 141 standard.



Hand protection.

Use chemical-resistant protective gloves made of natural rubber, PVC, or equivalent compliant with the EN-PN 374:2005 standard.

Glove material:

Choosing the right gloves depends not only on the material but also on the brand and quality, which vary between manufacturers. Resistance of the glove material can be determined after testing. Exact time of glove degradation must be determined by the manufacturer.



Eye protection.

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

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ACETIC ACID 60%

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



Body protection.

Use protective work clothing (compliant with EN 344) – wash regularly.

Thermal hazards: not applicable.

Environmental exposure controls: prevent entry into municipal water and sewage systems and watercourses.

SECTION 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties.

Physical state	liquid
Colour	colourless
Odour	characteristic, sharp, irritating
Melting point/freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flammability	flammable substance (for acetic acid 98%)
Lower and upper explosion limit	lower: 4%, upper: 19% (for acetic acid 98%)
Flash point	no data available
Auto-ignition temperature	463°C for acetic acid 98%
Decomposition temperature	not applicable
pH	<1
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	20,79 hPa at 25°C (2079 Pa at 298 K) for 98% acetic acid
Density and/or relative density	~1,0 g/cm ³ at 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
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	not applicable
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	not applicable

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gases in contact with water

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:

Reactive product, corrosive to many metals (reacts with the release of hydrogen), reacts with many organic compounds.

10.2 Chemical stability:

Product is stable under normal conditions of use, storage and transport.

10.3 Possibility of hazardous reactions:

Reacts dangerously with chromic acid, sodium peroxide, nitric acid, acetaldehyde, hydrogen peroxide, chromium trioxide, perchloric acid, oleum, chlorosulfanic acid, 2-aminoethanol, ethylenediamine, acetaldehyde, ammonium nitrate, bromine pentafluoride, chlorine trifluoride, permanganates, phosphorus trichloride, sodium and potassium hydroxide, potassium tertiary butoxide, xylene.

10.4 Conditions to avoid:

Avoid high temperatures, direct sunlight, hot surfaces and open flames.

10.5 Incompatible materials:

Materials with which acetic acid reacts.

10.6 Hazardous decomposition products:

No decomposition under recommended use and storage conditions. At high temperatures, toxic decomposition products are released – carbon oxides and acetic acid vapors.

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. |
| b) skin corrosion/irritation | Causes severe skin burns and eye damage. |
| c) serious eye damage/irritation | Causes serious 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. |

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- 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.

Toxicological data:

LD50 = 3310 mg/kg, rat, oral

LD50 = 4960 mg/kg, mouse

LD50 = 1200 mg/kg, rabbit

Inhalation

LC50 = 5620 ppm / 1 h, mouse

LC50 = 13488 mg/m³ / 1 h, mouse

LC50 = 11400 mg/m³ / 4 h, rat

LC50 >16000 ppm (40000 mg/m³)

DNEL/DMEL - NOAEC: 25 mg/m³ (inhalation, acute and long-term effects)

11.2 Information on other hazards.

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

Skin contact: chemical burns, wounds that are difficult to heal.

Eye contact: chemical burns - risk of permanent eye damage.

Respiratory system: chemical burns of the mucous membranes of the nose, throat, and subsequent respiratory tract.

Gastrointestinal tract: chemical burns of the mouth, tongue, throat, and subsequent gastrointestinal tract with risk of perforation.

Delayed, immediate, and chronic effects of short- and long-term exposure: no data available.

Interaction effects: no data available.

SECTION 12. Ecological information.

12.1 Toxicity:

The substance is not classified as hazardous to the environment, however, the lowering of pH has a very negative impact on aquatic organisms. Do not allow it to enter groundwater, sewers, or watercourses.

Aquatic environment:

EC50/LC50 > 300,82 mg/L

NOEC 72h, algae – 300,82 mg/l

12.2 Persistence and degradability:

Biodegradable.

12.3 Bioaccumulative potential:

In soil: Information not available

12.4 Mobility in soil:

Brak danych.

12.5 Results of PBT and vPvB assessment:

Product does not meet the PBT and vPvB criteria.

12.6 Endocrine disrupting properties:

Product does not disrupt the functioning of the hormonal system.

12.7 Other adverse effects:

No data available.

SECTION 13. Disposal considerations.

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13.1 Waste treatment methods.

Acetic acid should be disposed in accordance with local and national regulations. Waste and disposable packaging should be disposed of by specialized companies. Seal spilled product using universal binding agents (ground mica, diatomaceous earth) and, like the rest of the product, destroy it in a suitable incineration system or dispose of it as special waste. Neutralize small quantities with sodium bicarbonate and rinse with plenty of water. Store remaining product in its original containers. Dispose in accordance with applicable regulations. Empty, cleaned packaging should be disposed of (including recycling) in accordance with applicable regulations.

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 2790

14.2 UN proper shipping name.

ACETIC ACID SOLUTION

14.3 Transport hazard class(es).

8

14.4 Packing group.

II

14.5 Environmental hazards.

Not applicable.

14.6 Special precautions for user.

Always transport in closed containers that are upright, labelled and secured.

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.

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 6 March 2025 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 Laws 2015, item 450)

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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).

15.2 Chemical safety assessment.

A chemical safety assessment was conducted for the substance.

Annex XIV of the REACH Regulation – List of substances subject to authorisation: not applicable

SVHC substances – Candidate list of substances of very high concern awaiting authorisation: not applicable

Annex XVII of the REACH Regulation – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: not applicable

SECTION 16. Other information.

H phrases:

H226 – Flammable liquid and vapour.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

Description of abbreviations, acronyms and symbols used:

Flam. Liq. 3 - Flammable liquid.

Skin Corr. 1A – Skin corrosion/irritation.

Skin Corr. 1B – Skin corrosion/irritation.

Skin Irrit. 2 – Skin corrosion/irritation.

Eye Irrit. 2 – Serious eye damage/eye irritation.

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

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:

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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.