

MATERIAL SAFETY DATA SHEET

ACETIC ACID 80%

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 80%
UFI: KHFC-81PG-H00R-3X4C
- 1.2 Relevant identified uses of the substance or mixture and uses advised against.
Identified applications: Restrictions on use: restrictions on use apply to this product according to Regulation (EC) No. 1907/2006 Annex XVII (see section 15).
Chemical process aids, intermediate product, cleaning agent, sewage treatment.
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.

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

Causes serious eye damage, Eye Dam. 1; H318

2.2 Label elements:

Pictogram:



Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

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:

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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 REACH number: 01-2119475328-30 CAS number: 64-19-7 Index number: 607-002-00-6 EC number: 200-580-7	<81	Skin Corr. 1 Flam Liq. 3	H314 H226	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.

Clothing contaminated with product should be removed immediately.

In case of skin contact:

Wash off immediately with soap and water and rinse well.

In case of eye contact:

Rinse open eyes for several minutes under running water and seek medical advice.

In case of inhalation:

Supply fresh air, in case of discomfort call a physician.

In case of swallowing:

Rinse mouth and drink plenty of water. Do not induce vomiting and call a doctor immediately.

Immediately inhale a corticosteroid spray (e.g. dexamethasone). In case of ingestion: do not use sodium bicarbonate NaHCO_3 or calcium carbonate CaCO_3 for neutralization because carbon dioxide CO_2 produced can cause a stomach perforation. Slowly give the injured person magnesium oxide MgO dissolved in water to drink. In case of skin burns, pay attention to systemic effects.

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

No further relevant data available.

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

No further relevant data available.

SECTION 5. Firefighting measures.

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5.1 Extinguishing media:

Suitable extinguishing media: CO₂, extinguishing powder or water jet. For larger fires use water jet or alcohol-resistant foam.

Inappropriate extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance or mixture:

Possibility of creating explosive mixtures with air. In the event of combustion, carbon monoxide CO may be released. Vapours are heavier than air and rise above the ground. Possibility of ignition from greater distances. Reactions with metals to form hydrogen.

5.3 Advice for firefighters:

Protective clothing for all body parts and a face mask depending on environmental conditions. Cool containers at risk in case of fire with a water jet.

SECTION 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures.

Wear protective clothing. Move unprotected persons to a safe place. Ensure adequate ventilation. Extinguish open flames. Remove sources of ignition. Do not smoke. Avoid creating sparks. Avoid contact with eyes and clothing. Do not inhale fumes. Ventilate contaminated areas thoroughly. Electrostatic discharge protection measures. Wear protective clothing. Move unprotected persons to a safe place.

6.2 Environmental precautions.

Prevent entry into sewers, ditches and basements. In case of release of larger quantities, inform the appropriate authorities. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up.

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust). Use a neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4 Reference to other sections.

Waste treatment – see section 13.

Personal protective equipment – see section 8.

SECTION 7. Handling and storage.

7.1 Precautions for safe handling.

Keep container tightly closed. Ensure good ventilation/exhaustion in the work area. Avoid contact with eyes and skin. Avoid spraying. To dilute the product, add water and mix. Keep ignition sources away - do not smoke. Take measures against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities.

Store in well-closed drums in a cool, dry place. Comply with the rules and regulations regarding the storage and use of materials posing a hazard to water (Germany). Do not store in contact with oxidizing agents. Do not store in contact with metals. Do not store together with alkalis. Store the tank in a well-ventilated place.

7.3 Specific end use(s).

Uses according to section 1.2.

SECTION 8. Exposure controls/personal protection.

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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.

PNEC aqua	3,058 mg/l (fresh water) 0,306 mg/l (marine water)
PNEC sediment	11,36 mg/kg dw (fresh water) 1,136 mg/kg dw (marine water)
PNEC soil	0,47 mg/kg dw (soil)
PNEC STP	85 mg/l (Sewage treatment plants)

8.2 Exposure controls:

Ventilation or suction. Take measures against electrostatic discharges. Keep away from foodstuffs, beverages and feed. Remove contaminated, soaked clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.



Respiratory protection.

In case of short-term or low exposure use a respiratory filter device; in case of intensive or longer exposure, use a respiratory protection device. Combination filter E-P2. Combination filter B-P2.



Hand protection.

Use chemical-resistant protective gloves. Glove material: butyl rubber, nitrile rubber, chloroprene rubber. Selection of suitable gloves does not only depend on the material, but also on other quality marks and varies from manufacturer to manufacturer. Our recommendation is for single, short-term use as protection against liquid drops. For other applications please contact the glove manufacturer.

In case of permanent contact, gloves made of the following materials should be used:

Butyl rubber with a layer thickness of 0.7 mm (recommended: safety index Schutzindex 6, corresponding to 480 minutes of permeation time according to the EN 374 standard). Note! The daily period of use of gloves protecting against chemicals may be due to specific conditions at the workplace (mechanical load, temperature), significantly shorter than the permeation time specified in the EN 374 standard.



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

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Colour	colourless
Odour	acetic acid
Melting point/freezing point	-7,4 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	flammable liquid
Lower and upper explosion limit	Lower: 4%; Upper: 17%
Flash point	61°C
Auto-ignition temperature	485°C
Decomposition temperature	not applicable
pH	~1
Kinematic viscosity	no data available
Solubility	miscible with water
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	23 hPa
Density and/or relative density	1,07 g/cm ³
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 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:

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No further relevant data available

10.2 Chemical stability:

At normal pressure it distills without decomposition.

10.3 Possibility of hazardous reactions:

Reactions with strong alkalis. Reactions with base metals with evolution of hydrogen.

10.4 Conditions to avoid:

No further relevant data available

10.5 Incompatible materials:

Alkali (lye). Strong oxidizing agents, light metals, iron, lead, acetaldehyde (polymerization).

10.6 Hazardous decomposition products:

In the event of a fire, carbon monoxide CO and carbon dioxide CO₂ are produced. Hydrogen is produced when reacting with metals.

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 |
| b) skin corrosion/irritation | Causes severe skin burns. |
| 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.

Endocrine disrupting properties: none of the ingredients are listed.

SECTION 12. Ecological information.

12.1 Toxicity:

64-19-7 acetic acid

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LC 50 / 96 h >300 mg/l (Oncorhynchus mykiss) (OECD 203)
EC 50 / 48 h >300 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h >300 mg/l (Skeletonema costatum) (ISO//DIS 10253)

12.2 Persistence and degradability:

The product is easily biologically disposed of.

12.3 Bioaccumulative potential:

Does not bioaccumulate.

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:

The product does not contain any substances with endocrine disrupting properties.

12.7 Other adverse effects:

Respiratory inhibition of municipal activated sludge.

64-19-7 acetic acid: EC 20 800 mg/l (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test)).

The product does not cause biological oxygen consumption. After neutralization the relatively small harmful effect of salts formed in the process remains. If neutralization is not performed the pH value must be observed. The toxic effect on fish and bacteria begins below pH=6 and above pH=9.

It must not enter groundwater, water reservoirs or sewage systems. Water hazard class 1 (self-assessment): limited harmful to water.

SECTION 13. Disposal considerations.

13.1 Waste treatment methods.

Following information applies to the original product, not its modifications and derivatives. In the case of mixtures with other products, alternative disposal methods may be necessary; in case of doubt, consult the product supplier or local authorities. Recommendation:

Do not dispose of together with household waste. Do not allow to enter the sewage system.

Waste code number:

The waste codes have been applicable not only to the product but also to the basic field of application. The current waste code for the respective field of application can be found in the European Waste Catalogue.

Uncleaned packaging: dispose in accordance with regulations.

Recommendation:

Completely emptied and cleaned containers should be sent for reconditioning or recycling. Dispose of containers only after consultation with local authorities. Returnable packaging: After thorough emptying, close tightly immediately and return to the supplier without cleaning. Be careful not to allow foreign bodies to enter the packaging! Other containers: completely empty, clean and dispose of for recovery or recycling.

Recommended cleaning agent: water, if necessary with the addition of cleaning agents.

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

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14.2 UN proper shipping name.

ACETIC ACID, GLACIAL

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 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 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).

Council Directive 2012/18/EU

Designated hazardous substances - ANNEX I none of the ingredients are on the list

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV): none of the ingredients are on the list

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

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II none of the ingredients are on the list

Regulation (EC) No 273/2004 on drug precursors: none of the ingredients are on the list

Regulation (EC) No 111/2005 laying down rules for the monitoring of Trade in drug precursors between the Community and third countries: none of the ingredients are listed

Employment restriction guidelines: consider youth employment restrictions.

Substances of Very High Concern (SVHC) according to REACH, Article 57: none of the ingredients are listed

15.2 Chemical safety assessment.

A chemical safety assessment was carried out for the substance.

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SECTION 16. Other information.

H phrases:

H314 Causes severe skin burns and eye damage.

H318 Causes serious 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

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.