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

revised on: 04.08.2023

Version number 6 (replaces version 5)

Creation Date: 01.02.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: Acetic acid conc. Volumetric solution 0.1 mol / I (0.1 N) · Article number: 2264 · CAS Number: -• Registration number This product is a mixture. For relevant UK REACH registration numbers see section 3. · UFI: 7F91-J0V2-J00R-DV85 · 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 Laboratory chemicals Chemical analytics Commercial use • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de · Further information obtainable from: Product management department · 1.4 Emergency telephone number: National Poisons Information Service City Hospital **Dudley Road** Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS07

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

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

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· Hazard pictogr	(Contd. of page 1)
GHS07	
· Signal word W	arning
Hazard stateme	
H315 Causes sl	kin irritation.
H319 Causes se	erious eye irritation.
 Precautionary 	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other haza	rds
 Results of PBT 	and vPvB assessment
• PBT: Not applic	cable.
• vPvB: Not appli	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components
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24		
CAS: 64-19-7	Acetic acid	10–<15%
EINECS: 200-580-7	🚸 Flam. Liq. 3, H226	
Reg.nr.: 01-2119475328-30-XXXX		
	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 90 \%$	
	Skin Corr. 1B; H314: 25 % ≤ C <	
	90 %	
	Skin Irrit. 2; H315: 10 % ≤ C < 25	
	%	
	Eye Irrit. 2; H319: 10 % ≤ C < 25	
	%	
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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:
First aider needs to protect himself.
Immediately remove any clothing soiled by the product.
After inhalation:

- Supply fresh air. Seek medical treatment in case of complaints.
- · After skin contact:

Wash with plenty of soap and water, take off soiled clothes and shoes.

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(Contd. of page 2) After prolonged contact (accidental/forced) or any signs of skin changes (redness or other signs of inflammation), consult a doctor.

After eye contact:

Rinse out opened eye for several minutes under running water.

Remove any contact lenses if possible.

Continue rinsing. Seek immediate medical advice.

- After swallowing:
- Rinse out mouth and then drink plenty of water. Call a doctor immediately.
- Information for doctor: Please observe safety data sheet/label.
- 4.2 Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders
- Nausea

 • 4.3 Indication of any immediate medical attention and special treatment needed In case of lung irritation, administer glucocorticoid dose aerosol.
 Symptomatic treatment.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 Suitable extinguishing agents: Water spray, powder, carbon dioxide or foam. Fight larger fires with water spray or alcohol resistant foam.
 For safety reasons unsuitable extinguishing agents: Water with full jet.
 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon oxides (CO, CO $_{\Box}$) Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.
- · Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Safely prevent extinguishing water from entering groundwater or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation. Particular danger of slipping on leaked/spilled product. Avoid contact with eyes and skin. Keep away from ignition sources.
6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
6.3 Methods and material for containment and cleaning up: Cover the sewerage system. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the material collected according to regulations.
6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Apply the general protective and hygienic measures when handling chemicals. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. · Information about fire - and explosion protection: Substance itself does not burn, adapt extinguishing measures to surroundings 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Provide acid-resistant floor. Store only in the original receptacle. · Information about storage in one common storage facility: Store away from oxidising agents. · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. · Storage class: 8 B · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic acid

WEL Short-term value: 50 mg/m³, 20 ppm

Long-term value: 25 mg/m³, 10 ppm

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Respiratory protection:
- Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. If air-purifying respiratory protection is required according to the risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN 14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing apparatus with afull face mask must be worn. Respirators and components must be approved to appropriate government standards (for example, NIOSH (US) or CEN (EU)).Translated with www.DeepL.com/Translator (free version)

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· Hand protection



Protective 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

Material thickness: 0.5 mm

· Penetration time of glove material

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

Level 6 for applications > 480 min

· Eye/face protection



Tightly sealed goggles

Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical	properties	
· General Information		
· Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Characteristic	
 Melting point/freezing point: 	Undetermined.	
· Boiling point or initial boiling point and boiling		
range	118 °C	
· Flammability	Not applicable.	
 Lower and upper explosion limit 		
· Lower:	4 Vol %	
· Upper:	19.9 Vol %	
· Flash point:	> 60 °C	
· Auto-ignition temperature:	485 °C (CAS: 64-19-7 Acetic acid)	
	485 °C `	
 Decomposition temperature: 	Not determined.	
· pH at 20 °C	2.5	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
· Solubility	Chloroform, Alkohole, Ether, Wasser -	
· water:	Fully miscible.	
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· Partition coefficient n-octanol/water (log value)	-0.17 (Essigsäure) -
 Vapour pressure at 20 °C: 	23 hPa
 Density and/or relative density 	
· Density at 20 °C:	1.01 g/cm ³
	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of health and 	d
environment, and on safety.	
 Ignition temperature: 	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
· Organic solvents:	10–<15 %
· Water:	≥85.0 %
VOC (EC)	10–<15 %
Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard	
classes	
· Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
 Self-heating substances and mixtures 	Void
· Substances and mixtures, which emit flammable	
gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability Stable when stored and handled properly.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkali (lyes).

Reacts with oxidising agents.

- 10.4 Conditions to avoid Heat, flames and sparks.
- · 10.5 Incompatible materials: Avoid contact with other chemicals.

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• 10.6 Hazardous decomposition products: In case of fire: see section 5.

SECTION 11: Toxicological information

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

- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- \cdot 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.
- \cdot 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.
- · Subacute to chronic toxicity: -
- · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 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.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws.

This product and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in accordance with the respective national regulations.

· European waste catalogue

HP8 Corrosive

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

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· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN2790
14.2 UN proper shipping name ADR IMDG, IATA	2790 ACETIC ACID SOLUTION ACETIC ACID SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class Label	8 (C3) Corrosive substances. 8
IMDG, IATA	
Class Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids A
14.7 Maritime transport in bulk according to IM instruments	O Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
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· UN "Model Regulation":

UN 2790 ACETIC ACID SOLUTION, 8, III

SECTION 15: Regulatory information

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

· Inventory of Hazardous Chemicals

CAS: 64-19-7 Acetic acid

· 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

• 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 is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

• Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning juveniles must be observed.

- Employment restrictions concerning pregnant and lactating women must be observed.
- 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. The application, use and processing of our products are beyond our control and are therefore exclusively your responsibility.

· Relevant phrases

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

- Department issuing SDS: Product management
- · Contact: Product management
- Version number of previous version: 5
- · Abbreviations and acronyms:

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

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CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) 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 Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

• * Data compared to the previous version altered.

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