

SAFETY DATA SHEET

# Acetic acid 99%

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

1.1. Product identifier Trade name Acetic acid 99% Product no. 1194, 1183, 1195, 9188 Other means of identification Index no.: 607-002-00-6 EC No.: 200-580-7 CAS No.: 64-19-7 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture No special Relevant identified uses of the substance or mixture (REACH) No special Uses advised against No special 1.3. Details of the supplier of the safety data sheet Company and address Solveco AB Tallbacksgatan 10 S-195 72 Rosersberg Sverige T: +46 (0)8 732 72 75 F: +46 (0)8 732 72 76 http://www.solveco.se Contact person Habib Hourani E-mail info@solveco.se SDS date 2020-09-07 SDS Version 1.0 1.4. Emergency telephone number Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures". SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.

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

Eye Dam. 1; H318, Causes serious eye damage.

#### 2.2. Label elements



Hazard pictogram(s)
Signal word
Danger
Hazard statement(s)
Flammable liquid and vapour.
Causes severe skin burns and eye damage.
Safety statement(s)
General
•
Prevention
P280, Wear protective gloves/protective clothing/eye protection.
P260, Do not breathe vapour/mist.
Response
P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
P303+P361+P353, IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
[or shower]. Storage
P403+P235, Store in a well-ventilated place. Keep cool.
Disposal
P501, Dispose of contents/container to an approved waste disposal plant.
Hazardous substances
Acetic acid
2.3. Other hazards
Additional labelling
Not applicable
Additional warnings
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT
and/or vPvB.
SECTION 3: Composition/information on ingredients

### 3.1 Substances

Product/Ingredient name	Identifiers	% w/w	Classification	Note
Acetic acid	CAS No.: 64-19-7 EC No.: 200-580-7	95-100%	Skin Corr. 1A, H314 (SCL: 90.00 %) Flam. Liq. 3, H226	EU
	REACH No.:			
	Index No.: 607-002-00-6			

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

EU: European occupational exposure limit

SECTION 4: First aid measures



#### 4.1. Description of first aid measures

### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

#### IF exposed or concerned:

Get immediate medical advice/attention.

### Information to medics

Bring this safety data sheet or the label from this product.

#### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbon dioxide, powder, water mist. Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO2).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure



contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

#### 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste.

See section on 'Exposure controls/personal protection' for protective measures.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Avoid static electricity.

Avoid direct contact with the product.

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating]equipment.

Use non-sparking tools.

Smoking, drinking and consumption of food is not allowed in the work area.

See section on 'Exposure controls/personal protection' for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Take action to prevent static discharges.

### Storage temperature

Bevara torrt, svalt och i ett välventilerat utrymme i originalförpackning, ej i direkt solljus och frånskild brandfarliga kemikalier eller andra inkompatibla material.

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Acetic acid Long term exposure limit (8 hours): 10 ppm Long term exposure limit (8 hours): 25 mg/m<sup>3</sup>



Short term exposure limit (15 minutes): 20 ppm Short term exposure limit (15 minutes): 50 mg/m<sup>3</sup>

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

### DNEL

Product/Ingredient name	DNEL	Route of exposure	Duration
Acetic acid	25 mg/m3	Inhalation	Short term – Local effects - Workers
Acetic acid	25 mg/m3	Inhalation	Long term – Local effects - Workers
Acetic acid	10 mg/kg kroppsvikt/dag	Dermal	Long term – Local effects - Workers
Acetic acid	25 mg/m3	Inhalation	Short term – Local effects - General population
Acetic acid	25 mg/m3	Inhalation	Long term – Local effects - General population

#### PNEC

Product/Ingredient name	PNEC	Route of exposure	Duration of Exposure
Acetic acid	3,058 mg/l	Freshwater	No data available
Acetic acid	0,3058 mg/l	Marine water	No data available
Acetic acid	1,136 mg/kg	Marine water sediment	No data available
Acetic acid	0,478 mg/kg	Soil	No data available
Acetic acid	85 mg/l	Sewage Treatment Plant	No data available
Acetic acid	11,36 mg/kg	Freshwater sediment	No data available
Acetic acid	30,58 mg/l	Intermittent release	No data available

#### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis. General recommendations

Smoking, eating and drinking are not allowed in the work premises

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### **Exposure limits**

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

#### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work. Individual protection measures, such as personal protective equipment



Generally	d protective equipment.		
Respiratory Equipmen			
Work situation	Recommended Filter type	Class Colour Standards	
Insufficient ventilation	on Gas filter A + E	A + E 14387	
Skin protection			
Work situation	Recommended	Type/Category Standards	
	Dedicated work clothing shou	uld be worn	R
Hand protection			
Work situation	Material Glove Bre thickness (mm) (mi	eakthrough time Standards in.)	
	Nitrile	EN374-2	
	Butyl	EN374-2, EN374-3, EN388, EN421	
Eye protection			
Work situation	Recommended	Standards	
	Wear safety glasses with side	e shields. EN166	
CTION 9: Physical and c	hemical properties		
Form Liquid Colour Colourless Odour Sharp/pungent	physical and chemical properties		
Odour threshold (ppm	) t or not possible due to nature of	the product.	
Testing not relevan pH 2,4 vid 60,05 g/l			
Testing not relevan pH 2,4 vid 60,05 g/l Density (g/cm <sup>3</sup> ) 1,049 (relativ densit Viscosity	tet) (25.00 °C) t or not possible due to nature of	the product	



Boiling point (°C) 117 - 118 °C
Vapour pressure 55.00 mmHg (50.00 °C)
Vapour density
Testing not relevant or not possible due to nature of the product.
Decomposition temperature (°C)
Testing not relevant or not possible due to nature of the product.
Evaporation rate (n-butylacetate = 100)
Testing not relevant or not possible due to nature of the product.
Data on fire and explosion hazards
Flash point (°C) 40.00 °C
Ignition (°C)
Testing not relevant or not possible due to nature of the product.
Auto flammability (°C)
485 °C
Explosion limits (% v/v)
4.00 - 19.90 v/v%
Explosive properties
Testing not relevant or not possible due to nature of the product.
Oxidizing properties
Testing not relevant or not possible due to nature of the product.
Solubility
Solubility in water
Soluble
n-octanol/water coefficient
Testing not relevant or not possible due to nature of the product.
Solubility in fat (g/L)
Testing not relevant or not possible due to nature of the product. 9.2. Other information
9.2. Other Information
SECTION 10: Stability and reactivity
10.1. Reactivity
No data available
10.2. Chemical stability
The product is stable under the conditions, noted in the section "Handling and storage".
10.3. Possibility of hazardous reactions
No special
10.4. Conditions to avoid
Avoid static electricity.
-
Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.
10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.
SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity
Product/Ingredient name Species Test Route of exposure Result



Acetic acid	Mouse	LC50	Inhalation	5620 ppm
Acetic acid	Rat	LD50	Oral	3,310 mg/kg
Acetic acid	Rat	LC50	Inhalation	(4 h) 11,4 mg/l

#### Skin corrosion/irritation

Product/Ingredient name	Species	Test	Duration	Observation Period	Irritation Parameter	Result
Acetic acid	Rabbit	-	No data available.	No data	-	Adverse effect observed (Highly corrosive)

### Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/Ingredient name	Species	Test	Duration	Observation Period	Irritation Parameter	Result
Acetic acid	Rabbit	-	No data available.	No data	-	Adverse effect observed (Causes serious eye damage)

Causes severe skin burns and eye damage.

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. 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.

#### Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Other information

No special

#### SECTION 12: Ecological information

### 12.1. Toxicity

Product/Ingredient name Species

Test	Duration	Result



Acetic acid	Daphnia (Daphnia magna)	EC50	48 hours	300,82 mg/l
Acetic acid	Oncorhynchus mykiss (regnbågslax)	LC50	96 hours	1000 mg/l
12.2. Persistence and de	gradability			

Product/Ingredient name	Biodegradability	Test	Result
Acetic acid	Yes	BOD5/COD	

12.3. Bioaccumulative potential

#### No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### 12.6. Other adverse effects

No special

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

### EWC code

20 01 14 Acids

#### Specific labelling

### Not applicable

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

#### SECTION 14: Transport information

### 14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

	UN no.	Proper Shipping Name	Class	PG	Tunnel restriction code
	2789	ACETIC ACID, GLACIAL	8	II	2 (D/E)
IMDG					
	UN no.	Proper Shipping Name	Class	PG	EmS
	2789	ACETIC ACID, GLACIAL	8	II	F-E, S-C
IATA					
	UN no.	Proper Shipping Name	Class		PG
	2789	ACETIC ACID, GLACIAL	8		II

## "MARINE POLLUTANT"

No

### 14.5. Environmental hazards

Not applicable



### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available

**SECTION 15: Regulatory information** 

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

### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

## Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

P5c

### Additional information

Not applicable

#### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding. The Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 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 (CLP).

Regulation (EC) 1907/2006 (REACH).

### 15.2. Chemical safety assessment

No

SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H314, Causes severe skin burns and eye damage.

H226, Flammable liquid and vapour.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container



IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Additional information In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the substance/mixture is based on: The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) The classification of the substance/mixture in regard of physical hazards has been based on experimental data.

#### The safety data sheet is validated by

habib.hourani

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.