

# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 1 of 11

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

# 1.1. Product identifier

Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

REACH Registration Number:	01-2119475328-30-XXXX
CAS No:	64-19-7
Index No:	607-002-00-6
EC No:	200-580-7

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

# Use of the substance/mixture

Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the sa	fety data sheet		
Company name:	Fa. Bernd Kraft GmbH		
Street:	Stempelstraße 6		
Place:	D-47167 Duisburg		
Telephone:	0203/5194-0	Telefax: 0203/5194-290	
e-mail:	info@berndkraft.de		
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
e-mail:	produktsicherheit@berndkraft.de		
Internet:	www.berndkraft.de		
Responsible Department:	Abteilung Produktsicherheit		
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)		

# **Further Information**

No data available

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008 Flam. Liq. 3; H226

Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

Danger

### 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

**Pictograms:** 



# Hazard statements

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



# according to Regulation (EC) No 1907/2006 Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision	date:	11.10.2022
1 10 1101011	aato.	

Product code: 13376

Page 2 of 11

#### **Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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/doctor.

# 2.3. Other hazards

No data available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula:	CH3COOH
Molecular weight:	60,05 g/mol

#### Hazardous components

CAS No	Chemical name	Chemical name		
	EC No	EC No Index No REACH No		
	Classification (Regulation (EC) No 1272/2008)			
64-19-7	acetic acid	acetic acid		
	200-580-7	607-002-00-6	01-2119475328-30-XXXX	
	Flam. Liq. 3, Skin Corr. 1A; H226 H314			

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	imits, M-factors and ATE	
64-19-7	200-580-7	acetic acid	100 %
		0 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - . 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >=	

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# **General information**

Self-protection of the first aider

# After inhalation

Provide fresh air. Call a physician immediately.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an



# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

according to Regulation (EC) No 1907/2006

Revision date: 11.10.2022

Product code: 13376

Page 3 of 11

ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Irritant corrosive Dyspnoea Gastrointestinal complaints Vomiting Circulatory collapse Corneal opacity. Risk of serious damage to eyes.

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

No data available

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

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

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Acetic acid vapour Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Keep away from sources of ignition - No smoking. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.



# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 4 of 11

## For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

# 6.3. Methods and material for containment and cleaning up

### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

# For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed. Store in a dry place.



# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 5 of 11

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# Further information on storage conditions

storage temperature +15°C - +25°C

# 7.3. Specific end use(s)

Laboratory chemicals

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-19-7	Acetic acid	10	25		TWA (8 h)	
		20	50		STEL (15 min)	

## **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64-19-7 acetic acid				
Worker DNEL,	long-term	inhalation	local	25 mg/m³
Worker DNEL,	acute	inhalation	local	25 mg/m³
Consumer DNE	EL, long-term	inhalation	local	25 mg/m³
Consumer DNE	EL, acute	inhalation	local	25 mg/m³

# **PNEC** values

CAS No	Substance		
Environmental compartment Value		Value	
64-19-7	64-19-7 acetic acid		
Freshwater		3,058 mg/l	
Freshwater (intermittent releases) 30,58 mg/l		30,58 mg/l	
Marine water 0,306 mg/l		0,306 mg/l	
Freshwater sediment 11,36 mg/kg		11,36 mg/kg	
Marine sediment 1,136 mg		1,136 mg/kg	
Micro-organisms in sewage treatment plants (STP)		85 mg/l	
Soil		0,47 mg/kg	

# 8.2. Exposure controls

# Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

# Individual protection measures, such as personal protective equipment

# Eye/face protection

goggles Face protection umbrella

# Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 6 of 11

By long-term hand contact KCL 897 Butoject® Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact KCL 890 Vitoject® FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Take off immediately all contaminated clothing and wash it before reuse. Wear fire resistant or flame retardant clothing. Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

# **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device (full mask or mouthpiece) with filter: E-(P2)

#### Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	stinging	
Melting point/freezing point:		17 °C
Boiling point or initial boiling point and		116-118 °C
boiling range:		
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		4 vol. %
Upper explosion limits:		19,9 vol. %
Flash point:		39 °C
Auto-ignition temperature:		463 °C
Decomposition temperature:		No data available
pH-Value (at 20 °C):		2,5 (50 g/l)
Viscosity / kinematic: (at 20 °C)		1,17 mm²/s
Water solubility:		602,9 g/L
(at 25 °C)		
Solubility in other solvents		
No data available		
Partition coefficient n-octanol/water:		No data available



Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.						
Revision date: 11.10.2022	Product code: 13376	Page 7 of 11				
Vapour pressure: (at 20 °C)	16 hPa hPa					
Vapour pressure:	No data available					
Density:	1,05 g/cm <sup>3</sup>					
Bulk density:	No data available					
Relative vapour density:	No data available					
9.2. Other information						
Information with regard to physical hazard clas	ses					
Explosive properties Vapours are heavier than air, spread along flo	ore and form explosive mixtures with air					
Sustaining combustion:	Sustaining combustion					
Self-ignition temperature						
Solid:	No data available					
Gas:	No data available					
Oxidizing properties						
No data available						
Other safety characteristics						
Evaporation rate:	No data available					
Solvent separation test:	No data available					
Solid content:	No data available					
Sublimation point:	No data available					
Softening point:	No data available					
Pour point:	No data available					
:	No data available					
Viscosity / dynamic:	1,22 mPa·s					
(at 20 °C)						
Flow time:	No data available					
Further Information						

No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

In case of warming: Vapours may form explosive mixtures with air.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Oxidising agent peroxides, for example hydrogen peroxide permanganates, e.g. potassium permanganate Oxidising agent, strong Metal iron and steel Zinc Alkali (lye) aldehydes Alcohols Nitric acid

# 10.4. Conditions to avoid

storage temperature < 17 °C Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



an analyti**chem** company

# according to Regulation (EC) No 1907/2006

# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 8 of 11

# 10.5. Incompatible materials

Metal

# 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

#### **Further information**

No data available

# **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. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source		Method	
64-19-7	acetic acid							
	oral	LD50 mg/kg	3310	Rat	J Ind Hyg ∃ 23, PP 78-	-	The sodium salt of acetic acid was admin	
	inhalation (4 h) vapour	LC50	11,4 mg/l	Rat	Study repo	rt (1980)	OECD Guideline 403	

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

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. Observe risk of aspiration if vomiting occurs.

# Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

# **Practical experience**

No data available

# 11.2. Information on other hazards

- Other information Irritant
  - corrosive Dyspnoea Gastrointestinal complaints Vomiting Circulatory collapse Corneal opacity. Risk of serious damage to eyes.



# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 9 of 11

## **Further information**

kidneys

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64-19-7	acetic acid						
	Acute fish toxicity	LC50 mg/l	> 1000	96 h	Oncorhynchus mykiss	Study report (2005)	other: SOP E257
	Acute algae toxicity	ErC50 mg/l	> 1000		Skeletonema costatum	Study report (2005)	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1990)	OECD Guideline 202

## 12.2. Persistence and degradability

99 %; 30 d

Readily biodegradable (according to OECD criteria).

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-19-7	acetic acid	-0,17
BCF		

CAS No	Chemical name	BCF	Species	Source
64-19-7	acetic acid	3,16	fish	Environ. Toxicol. Ch

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Avoid release to the environment.

# **Further information**

No data available

#### **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.



# Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.

Revision date: 11.10.2022

Product code: 13376

Page 10 of 11

# **SECTION 14: Transport information**

Land transport (ADR/RID)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	Acetic acid, glacial	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Classification code:	CF1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Transport category:	2	
Hazard No:	83	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	Acetic acid, glacial	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Classification code:	CF1	
Limited quantity:	1 L	
Excepted quantity:	E2	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	Acetic acid, glacial	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Special Provisions:	-	
Limited quantity:	1 L	
Excepted quantity:	E2	
EmS:	F-E, S-C	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 2789	
14.2. UN proper shipping name:	Acetic acid, glacial	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+3	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		851
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		855
IATA-max. quantity - Cargo:		30 L

# **SECTION 15: Regulatory information**

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

# EU regulatory information

# Restrictions on use (REACH, annex XVII): Entry 3, Entry 40



Essigsäure 99,8% reinst enspricht der analyt. Spez. der Ph.Eur.					
Revision date: 11.10.2022	Product code: 13376	Page 11 of 11			
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS				
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juveniles according work protection guideline' (94/33/EC).	to the 'juvenile			
Water hazard class (D):	1 - slightly hazardous to water				
SECTION 16: Other information					

#### Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.	
H314 Causes severe skin burns and eye dama	ge.
H318 Causes serious eye damage.	-

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.