

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Sodium acetate solution 0.1 mol/l - 0.1 N solution in anhydrous acetic acid, Reag. Ph. Eur.

Revision date: 15.03.2022 Product code: 21759 Page 1 of 13

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

## 1.1. Product identifier

Sodium acetate solution 0.1 mol/l - 0.1 N solution in anhydrous acetic acid, Reag. Ph. Eur.

# 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).

### 1.3. Details of the supplier of the safety 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

**1.4. Emergency telephone** For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> 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**

This product is a mixture. REACH Registration Number see section 3.

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

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### Regulation (EC) No 1272/2008

# Hazard components for labelling

acetic acid

Signal word: Danger

Pictograms:





# Hazard statements

H226 Flammable liquid and vapour. H290 May be corrosive to metals.



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H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

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**

### 3.2. Mixtures

#### **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)	•	
64-19-7	acetic acid			95 - < 100 %
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A; H226 H314			
127-09-3	sodium acetate			< 1 %
	204-823-8		01-2119485123-42	

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

Specific Conc. Limits. M-factors and ATE

opeone concitation in tactors and 7112					
CAS No	No EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE				
64-19-7	200-580-7	acetic acid	95 - < 100 %		
		250 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg			
127-09-3	204-823-8	sodium acetate	< 1 %		
dermal: LD50 = > 28269,15 mg/kg; oral: LD50 = ca. 2015,4 mg/kg					

#### **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.



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#### 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 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



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#### 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.

Corrosive to metals.

### 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.



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#### 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.

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	
127-09-3	sodium acetate				
Worker DNEL,	long-term	inhalation	systemic	1057,9 mg/m³	
Worker DNEL, acute		inhalation	systemic	6347,36 mg/m³	
Worker DNEL,	long-term	dermal	systemic	12 mg/kg bw/day	
Worker DNEL,	acute	dermal	systemic	72 mg/kg bw/day	
Consumer DNE	EL, long-term	inhalation	systemic	521,73 mg/m³	
Consumer DNE	Consumer DNEL, acute		systemic	3103,45 mg/m³	
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day	
Consumer DNEL, acute		dermal	systemic	36 mg/kg bw/day	
Consumer DNEL, long-term		oral	systemic	6 mg/kg bw/day	
Consumer DNEL, acute		oral	systemic	36 mg/kg bw/day	



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#### **PNEC** values

CAS No	Substance		
Environment	al compartment	Value	
64-19-7	acetic acid		
Freshwater		3,058 mg/l	
Freshwater (	intermittent releases)	30,58 mg/l	
Marine water	г	0,306 mg/l	
Freshwater s	sediment	11,36 mg/kg	
Marine sedin	Marine sediment		
Micro-organisms in sewage treatment plants (STP)		85 mg/l	
Soil	Soil		
127-09-3	sodium acetate		
Freshwater		0,1 mg/l	
Marine water	r	0,01 mg/l	
Freshwater sediment		0 mg/kg	
Marine sediment		0 mg/kg	
Micro-organisms in sewage treatment plants (STP)		720 mg/l	
Soil	Soil		

#### 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):

By long-term hand contact

Trade name/designation: KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 890 Vitoject® Suitable material: 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.



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Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

#### Thermal hazards

No data available

#### **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

Odour threshold: No data available

### Changes in the physical state

Melting point/freezing point:

No data available

Boiling point or initial boiling point and

~116 °C

boiling range:

Sublimation point:

Softening point:

No data available

No data available

No data available:

No data available

No data available:

No data available

No data available

No data available

**Flammability** 

Solid/liquid: No data available
Gas: No data available

## **Explosive properties**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Lower explosion limits:  $\sim$  4 vol. % Upper explosion limits:  $\sim$  19,9 vol. % Auto-ignition temperature:  $\sim$  463 °C

Self-ignition temperature

Solid: No data available No data available Gas: No data available Decomposition temperature: pH-Value: acidic Viscosity / dynamic: No data available Viscosity / kinematic: No data available Flow time: No data available Water solubility: ~ 602,9 g/L

(at 25 °C)

## Solubility in other solvents

No data available

Dissolution rate: No data available



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Partition coefficient n-octanol/water:

Dispersion stability:

Vapour pressure:

No data available

No data available

~ 16 hPa hPa

(at 20 °C)No data availableVapour pressure:No data availableDensity:~ 1,05 g/cm³Relative density:No data availableBulk density:No data availableRelative vapour density:No data availableParticle characteristics:No data available

#### 9.2. Other information

## Information with regard to physical hazard classes

Sustaining combustion: Sustaining combustion

Oxidizing properties

No data available

#### Other safety characteristics

Solvent separation test:

Solvent content:

No data available

Solid content:

No data available

Evaporation rate:

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

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

### 10.5. Incompatible materials

Metal

### 10.6. Hazardous decomposition products

**SECTION 5: Firefighting measures** 

#### **Further information**

No data available



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### **SECTION 11: Toxicological information**

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

### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### **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	acetic acid				
	oral	LD50 3310 mg/kg	Rat	J Ind Hyg Toxicol, Vol 23, PP 78-82 (194	The sodium salt of acetic acid was admin	
	inhalation (4 h) vapour	LC50 11,4 mg/l	Rat	Study report (1980)	OECD Guideline 403	
127-09-3	sodium acetate					
	oral	LD50 ca. 2015,4 mg/kg		Read-across (2010)	Read-across approach from Letter of Acce	
	dermal	LD50 > 28269,15 mg/kg		Read-across (2010)	Read-across approach from published expe	

#### 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.

# Information on likely routes of exposure

There are no data available on the mixture itself.

### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

There are no data available on the mixture itself.

#### Other information

Irritant



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corrosive

Dyspnoea

Gastrointestinal complaints

Vomiting

Circulatory collapse

Corneal opacity.

Risk of serious damage to eyes.

#### **Further information**

Causes damage to organs.

(kidneys)

# **SECTION 12: Ecological information**

### 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name	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	72 h	Skeletonema costatum	Study report (2005)	ISO 10253
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1990)	OECD Guideline 202
127-09-3	sodium acetate						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio	Study report (1993)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 417,92	72 h		Read-across (2010)	Read-across approach from Letter of Acce

## 12.2. Persistence and degradability

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-19-7	acetic acid	-0,17
127-09-3	sodium acetate	-3,72

# **BCF**

CAS No	Chemical name	BCF	Species	Source
64-19-7	acetic acid	3,16	fish	Environ. Toxicol. Ch
127-09-3	sodium acetate	3,162		Calculation (2009)

## 12.4. Mobility in soil

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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#### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

#### **Further information**

Avoid release to the environment.

## **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.

Do not empty into drains.

## 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.

## **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 SOLUTION

14.3. Transport hazard class(es): 14.4. Packing group: П Hazard label: 8+3 CF1 Classification code: 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 SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+3Classification code:CF1Limited quantity:1 LExcepted quantity:E2

# Marine transport (IMDG)

14.1. UN number or ID number: UN 2789

14.2. UN proper shipping name: ACETIC ACID SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+3Special Provisions:-Limited quantity:1 LExcepted quantity:E2EmS: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 SOLUTION



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14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+3Limited quantity Passenger:0.5 LPassenger LQ:Y840Excepted quantity:E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### **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

Information according to 2012/18/EU

(SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 5,8,9,11,12,13,14,15.

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Flam. Liq. 3; H226	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

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

H226 Flammable liquid and vapour. H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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.





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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)