

Safety Data Sheet

Product Name: **TSK-LIQ046 ACETIC ACID PURE**

· SFC ·



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1. Product identifier

Product name: Acetic Acid Pure

CAS No. 64-19-7

REACH No. 01-2119475328-30-0036

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

Relevant identified uses

Remark

Only valid if in compliance with the conditions described in the annex to this safety data sheet.

Sector of uses [SU]

SU3 Industrial uses

SU3 Industrial manufacturing.

SU4 Manufacture of food products

SU5 Manufacture of textiles, leather, fur

SU6a Manufacture of wood and wood products

SU6b Manufacture of pulp, paper and paper products

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 Manufacture of fine chemicals

SU10 Chemical formulation and packaging.

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU21 Consumer uses: Private households (= general public = consumers)

Product categories [PC]

PC3 Air care products

PC4 Anti-freeze and de-icing products

PC9a Coatings and paints, thinners, paint removers

PC9b Fillers, putties, plasters, modelling clay

PC9c Finger paints

PC12 Fertilizers

PC24 Lubricants, greases, release products

PC27 Plant protection products

PC35 Washing and cleaning products (including solvent based products)

PC34 Textile dyes, finishing and impregnating products

PC21 Laboratory chemicals

PC38 Welding and soldering products (with flux coatings or flux cores), flux products

PC8 Biocidal products (e.g. Disinfectants, pest control)

1.3. Details of the supplier of the safety data sheet

Company:

Supplies for Candles

Unit E, Swinton Bridge Industrial Estate,

Whitelee Road,

Swinton, South Yorkshire, S64 8BH

customerservice@suppliesforcandles.co.uk

Emergency telephone number:

+44 (0) 1384 293222 (Mon-Fri 9am – 5pm)

Supplies for Candles, Unit E, Swinton Bridge Industrial Estate, Whitelee Road, Swinton, South Yorkshire, S64 8BH

T: +44 (0) 1709 257151 E: customerservice@suppliesforcandles.co.uk W: www.suppliesforcandles.co.uk

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Corr. 1B

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

Classification procedure

Harmonised (legal) classification.

2.2. Label elements

Signal word

Danger

Hazard statements

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.

2.3. Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2. Substances/Mixtures

Hazardous ingredients

Acetic acid ... % 60 - 80 %

CAS 64-19-7

EC 200-580-7

INDEX 607-002-00-6

Flam. Liq. 3, H226 / Skin Corr. 1A, H314

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Move affected person into fresh air, keep warm and allow to rest.

Following skin contact

Wash immediately with:

Water

Soda solution, diluted

After eye contact

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

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate

medical attention. Do not induce vomiting. Let water be drunk in little sips (dilution effect).

Self-protection of the first aider

First aider: Pay attention to self-protection!

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

Effects

Spasms

Pulmonary oedema

Nausea

shortage of breath. Heart circulatory collapse.

Dyspnoea

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

Foam

Water

Carbon dioxide (CO2)

5.2. Special hazards arising from the substances or mixture:

No data available

5.3. Advice for firefighters:

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Vapours are heavier than air

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel

Emergency procedures

Remove persons to safety. Provide adequate ventilation.

For emergency responders

Personal protection equipment

Use appropriate respiratory protection.

6.2. Environmental precautions:

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up:

For containment

Suitable material for taking up:

Sand

Earth

For cleaning up

Suitable material for diluting or neutralizing:

Water

Lime

6.4. Reference to other sections:

Disposal: see section 13

Personal protection equipment: see section 8

Safe handling: see section 7

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Advices on general occupational hygiene

Remove contaminated, saturated clothing immediately.

Protective measures

Advices on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Measures to prevent fire

Vapours are heavier than air.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels

Suitable container/equipment material:

Glass

Polyethylene (PE)

Polytetrafluoroethylene (PTFE)

Material, acid-resistant

Hints on joint storage

Materials to avoid

Do not store together with:

Oxidising agent

Further information on storage conditions

Keep locked up

7.3. Specific end use(s)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

CAS No.	Substance name	LTV	STV	Remark
64-19-7	Acetic acid	25 mg/m ³ 10 ppm		European Union
CAS No.	Substance name	LTV	STV	Remark
64-19-7	Acetic acid	[25] mg/m ³ [10] ppm	[37] mg/m ³ [15] ppm	The UK Advisory Committee on Toxic Substances has expressed concern that, for the OELs shown in parentheses, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards. Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

Monitoring and observation processes

refer to: GESTIS – Analytical Methods (http://www.dguv.de/ifa/en/gestis/analytical_methods/index.jsp)

DNEL-/PNEC-values

DNEL Consumer

DNEL type

DNEL acute inhalative (local)

DNEL value 25 mg/m³

DNEL type

DNEL long-term inhalative (local)

DNEL value 25 mg/m³

DNEL worker

DNEL type

DNEL acute inhalative (local)

DNEL value 25 mg/m³

DNEL type

DNEL long-term inhalative (local)

DNEL value 25 mg/m³

PNEC

PNEC Value 3,058 mg/L

PNEC type

PNEC aquatic, freshwater

PNEC Value 0,3058 mg/L

PNEC type

PNEC aquatic, marine water

PNEC Value 30,58 mg/L

PNEC type

PNEC aquatic, intermittent release

PNEC Value 11,36 mg/kg

PNEC type

PNEC sediment, freshwater

PNEC Value 1,136 mg/kg

PNEC type

PNEC sediment, marine water

PNEC Value 85 mg/L

PNEC type

PNEC sewage treatment plant (STP)

8.2. Exposure controls:

Appropriate engineering controls

Technical measures to prevent exposure

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

refer to chapter 7. Additional information about structure of technical plants:

Personal protection equipment

Eye/face protection

Suitable eye protection:

Tightly sealed safety glasses.

Skin protection

Suitable material:

Butyl caoutchouc (butyl rubber)

Breakthrough time (maximum wearing time) >480 min

Thickness of the glove material 0,3 mm

Recommended glove articles

Manufacturer

KCI

remark

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control

digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:

Suitable protective clothing:

Personal protective equipment should be selected based on the concentration and the task being performed.

Respiratory protection

Respiratory protection necessary at:

exceeding exposure limit values

aerosol or mist formation

Suitable respiratory protection apparatus:

Filtering device (full mask or mouthpiece) with filter:

A

Container device with compressed air (DIN EN 137)

Environmental exposure controls

Substance/mixture related measures to prevent exposure during identified uses

Further information: refer to exposure scenarios attached to this safety data sheet

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance

Physical state

Liquid

Colour

colourless

Odour

stinging

Odour threshold:

0,2-100,1 ppm

The physical data below, unless mentioned otherwise, are valid for acetic acid 100%

		Parameter	Method - source - remark
pH	0,2	Temperature 25 °C	Acetic acid 80%
Melting point/freezing point	-7,4 °C		Acetic acid 80%
Melting point/freezing point	-26,5 °C		Acetic acid 60%
Initial boiling point and boiling range	117,9 °C		
Flash point (°C)	64,5 °C		Acetic acid 80%
Evaporation rate			Not determined
flammability			Not determined
Upper explosion limit	19,9 Vol-%		
lower explosion limit	4 Vol-%		
Vapour pressure	20,79 hPa	Temperature 25 °C	
Vapour density	2,07		
Density	1,0685 g/cm ³	Temperature 15 °C	Acetic acid 60%
Density	1,074 g/cm ³	Temperature 15 °C	Acetic acid 80%
Fat solubility (g/L)			Not determined
Water solubility (g/L)	602 g/L	Temperature 25 °C	Completely miscible
Soluble (g/L) in			Not determined
Partition coefficient: n-octanol/water	-0,17		
Auto-ignition temperature	463 °C		
Decomposition temperature			Not determined
Dynamic viscosity	1,056 mPa*s	Temperature 25 °C	
flow time			Not determined
Kinematic viscosity			Not determined

9.2. Other information

Physical hazards

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No information available.

10.2. Chemical stability:

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions:

See 10.5

10.4. Conditions to avoid:

No information available.

10.5. Incompatible materials:

Materials to avoid

Violent reaction with:

Peroxides

Oxidising agent, strong

Hydrogen peroxide

Alkali (lye), concentrated

Metal, base

Stahl

Formation of:

Hydrogen

10.6. Hazardous decomposition products:

No information available.

SECTION 11: TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity

Acute dermal toxicity 1060 mg/kg

Effective dose

LD50:

Species:

Rabbit

source

IUCLID

Acute inhalation toxicity (vapour) >16000 mg/kg

Effective dose

LC50:

Exposure time 4 h

Species:

Rat

Acute oral toxicity 3310 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

Corrosive.

Species:

Rabbit

source

IUCLID

Result / evaluation

corrosive.

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Overall Assessment on CMR properties

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Germ cell mutagenicity

In vitro mutagenicity/genotoxicity

Method

Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)

Result / evaluation

negative.

Reproductive toxicity

Assessment/classification

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity

Acute (short-term) fish toxicity >300,82 mg/L

Effective dose

LC50:

species

Oncorhynchus mykiss

Method

OECD 203

Acute (short-term) toxicity to crustacea 300,82 mg/L

Effective dose

EC50

Test duration 48 h

species

Daphnia magna (Big water flea)

Method

OECD 202

Acute (short-term) toxicity to aquatic algae and cyanobacteria 300,82 mg/L

Effective dose

EC50

Test duration 72 h

species

Skeletonema costatum

Method

ISO10252

12.2. Persistence and degradability

Biodegradation

Degradation rate (%): 96 %

parameter

COD-decrease.

Assessment/classification

Readily biodegradable (according to OECD criteria).

Readily eliminated from water

12.3. Bio accumulative potential:

Partition coefficient: n-octanol/water

Distribution coefficient (n-octanol / water) (log P O/W): -0,17

Result / evaluation

nicht bioakkumulierbar

12.4. Mobility in soil:

log Koc: 0,0618

Method

EpiSuite QSAR tool

Assessment/classification

Essigsäure weist ein geringes Adsorptionspotenzial auf

12.5. Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Appropriate disposal / Product

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. Waste disposal according to official state regulations.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATADGR)
14.1 UN-No.	2790	2790	2790
14.2 Proper Shipping Name	ACETIC ACID SOLUTION	ACETIC ACID SOLUTION	Acetic acid solution
14.3 Class(es)	8	8	8
14.4 Packing group	II	II	II
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	Not applicable	Not applicable	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

Additional information - Land transport (ADR/RID)

Hazard label(s)	8
Limited quantity (LQ)	1 L
Hazard identification number (Kemler No.)	80
tunnel restriction code	E
transport category	2

Additional information - Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ)	0,5
-----------------------	-----

SECTION 15: REGULATORY INFORMATION

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

EU legislation

Authorisations and/or restrictions on use

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Volatile organic compounds (VOC) content in percent by weight: 99,9 Wt %

Directive 2010/75/EU on industrial emissions

CHAPTER V: SPECIAL PROVISIONS FOR INSTALLATIONS AND ACTIVITIES USING ORGANIC SOLVENTS

Volatile organic compounds (VOC) content in percent by weight: 99,9 Wt %

National regulations

15.1 Chemical Safety Assessment:

For this substance a chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Indication of changes

2; 3.2; 7; 9.1;10

Relevant R-, H- and EUH-phrases (Number and full text)

H314 Causes severe skin burns and eye damage.

Key literature references and sources for data

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 document above has to be considered as technical information, it is presented in good faith, but no warranty is given. The above information does not release the customer from making their own controls and checks upon receipt of the product. In view of the great variety of possible applications, no assurance is given of the suitability of the product for any particular purpose. Furthermore, since Kilo as a material supplier is unable to exercise any control over the use of the products, including designing, testing, specifying a compound or product incorporating any of the products, it is the sole responsibility of the buyer who shall assume any consequences thereof, whether direct or indirect, and whatsoever its nature, and the seller makes no warranties in respect thereof.

This is a computer-generated document and therefore is not signed