

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.11.2024

Version number 209.05 (replaces version 209.04)

Revision: 06.11.2024

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

#### 1.1 Product identifier

**Trade name** Ameisensäure 75% techn.**Article number:** 1003654701001**UFI:** UKGC-508V-X00F-0YP0

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

For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.

##### Restrictions on use:

Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).

##### Application of the substance / the mixture

Basic chemical (without special defined application)  
Industrial / Professional use

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

STOCKMEIER Chemie GmbH & Co.KG, Am Stadtholz 37, DE - 33609 Bielefeld  
Tel.: +49 521 / 30 37-0, ehs-bielefeld@stockmeier.deSTOCKMEIER Fluids GmbH & Co. KG, Sanssouci 12, DE – 58802 Balve  
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##### Informing department:

Product safety department. Tel.: 0049 / 521 / 3037-381

E-mail: ehs-bielefeld@stockmeier.de

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**1.4 Emergency telephone number:**

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

## SECTION 2: Hazards identification

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

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

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

**Hazard pictograms**

GHS05 GHS07

**Signal word** Danger**Hazard-determining components of labelling:**

formic acid

**Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe mist/vapours/spray.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH071 Corrosive to the respiratory tract.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Leaked out product reacts with base metal under development of hydrogen gas. Evaporated product irritates eyes and respiratory tracts.

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise.

Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.

#### 5.3 Advice for firefighters

##### Protective equipment:

See section 8.

Wear self-contained breathing apparatus.

##### Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

Cool endangered containers in the vicinity with a water spray jet.

### SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes and clothing. Do not breathe vapour. Ventilate contaminate area thoroughly.

Shut off leaks, if possible without personal risk.

Put on protective equipment and keep unprotected persons away.

#### 6.2 Environmental precautions:

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

In case of release of larger quantities, inform competent authorities.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Ensure adequate ventilation.

Dispose of contaminated material as waste according to point 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace.

Prevent formation of aerosols.

Prevent eye and skin contact.

When diluting, always stir the product into standing water.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

**Storage** Protect against direct sunlight, other sources of heat and ignition.

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**Requirements to be met by storerooms and containers:**

Observe laws and regulations on the storage and use of substances hazardous to water.

Store in the delivery container or in PE containers.

**Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

Store away from metals.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

Do not store at temperatures of more than 30°C.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Components with critical values that require monitoring at the workplace:****64-18-6 formic acid**AGW (Germany) Long-term value: 9,5 mg/m<sup>3</sup>, 5 ppm  
2(l);DFG, EU, YIOELV (EU) Long-term value: 9 mg/m<sup>3</sup>, 5 ppm**DNELs****64-18-6 formic acid**

Inhalative	DNEL (worker)	9,5 mg/m <sup>3</sup> (Long-term - systemic + local effects) 19 mg/m <sup>3</sup> (Acute - systemic + local effects)
	DNEL (population)	3 mg/m <sup>3</sup> (Long-term - systemic + local effects) 9,5 mg/m <sup>3</sup> (Acute - systemic + local effects)

**PNECs****64-18-6 formic acid**

PNEC water	2 mg/l (freshwater)
	0,2 mg/l (marine water)
PNEC	1 mg/l (intermittent releases)
PNEC sediment	13,4 mg/kg (freshwater)
	1,34 mg/kg (marine water)
PNEC STP	7,2 mg/l (sewage plant)
PNEC soil	1,5 mg/kg (soil)

**Additional information:** The lists that were valid during the compilation 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 food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

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**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.

**Recommended filter device for short term use:** Combination filter E-P2

**Hand protection**

Protective gloves (EN 374).

Only use chemical-protective gloves with CE-labelling of category III.

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**

Chloroprene rubber, CR

Fluorocarbon rubber (Viton)

Butyl rubber, BR

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.

**Penetration time of glove material**

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

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

**For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber with 0,7 mm coating thickness (recommended: protective index 6, corresponding to > 480 minutes of permeation time according to EN 374).

Attention! Due to conditions (stressing, temperature) the practical usage of chemical protective gloves may be much shorter than the permeation time according to EN 374.

**Not suitable are gloves made of the following materials:** Nitrile rubber, NBR

**Eye/face protection** Tightly sealed safety glasses.

**Body protection:**

Standard protective work clothing. Chemical resistant safety shoes or boots. If skin contact may occur, wear impermeable protective clothing for this solution.

## \* SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Colour:**

Colourless

**Smell:**

Pungent

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

&lt;-27 °C

**Boiling point or initial boiling point and boiling range**

100 °C (1013 hPa, 7732-18-5 water, distilled, conductivity or of similar purity)

**Flammability**

Not applicable.

**Lower and upper explosion limit****Lower:**

14 Vol %

**Upper:**

51 Vol %

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<b>Flash point:</b>	72-<93 °C
<b>Auto-ignition temperature:</b>	520 °C (DIN EN 14522)
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	<2
<b>pH-value:</b>	
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value) at 23 °C</b>	-2,1 log POW
<b>Vapour pressure at 20 °C:</b>	43 hPa (64-18-6 formic acid)
<b>Vapour pressure at 50 °C:</b>	170 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C</b>	1,18 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

**9.2 Other information****Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Self-inflammability:** Product is not selfigniting.**Explosive properties:** Product is not potentially explosive**Evaporation rate** Not determined.**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.

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**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**

Violent reaction with concentrated alkali and oxidizing agents

Reacts with metals forming hydrogen

**10.4 Conditions to avoid** Temperature: > 30°C**10.5 Incompatible materials:**

strong oxidising agents

Bases, base metal

**10.6 Hazardous decomposition products:**

Formation of carbon monoxide and carbon dioxide in case of fire.

Reaction in contact with metal forming hydrogen.

\* **SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if swallowed or if inhaled.

**LD/LC50 values that are relevant for classification:****64-18-6 formic acid**

Oral	LD50	730 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC 50 / 4 h	7,85 mg/l (rat)

**Primary irritant effect:****Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious 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.**Germ cell mutagenicity: Ames test:** Negative**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

\* **SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****64-18-6 formic acid**

LC 50 / 96 h	130 mg/l (Danio rerio)
EC 50 / 48 h	365 mg/l (Daphnia magna)

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EC 50 / 72 h &gt;1000 mg/l (Desmodemus subspicatus)

**12.2 Persistence and degradability**

The product is readily biodegradable.

**64-18-6 formic acid**

DOC - Elimination &gt;90 % (OECD 301A)

**Behaviour in environmental systems:**

The product is an acid. Neutralisation is usually required before discharging a wastewater into sewage treatment plants.

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

**12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

**12.4 Mobility in soil** Adsorption in soil is not expected.**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****Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):****64-18-6 formic acid**

EC 20 &gt;1000 mg/l (OECD 209 / ISO 8192)

EC 50 / 17 h 46,7 mg/l (Pseudomonas putida)

**Additional ecological information:**

Does not cause any biological oxygen consumption. After neutralization, the toxicity is reduced. Toxic effects refer to pH-values below pH&lt;6 or above pH&gt;9.

**General notes:**

Do not allow to enter drainage system, surface or ground water

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

**Recommendation**

After prior treatment product has to be disposed of in an incinerator for hazardous waste under adherence to the regulations pertaining to the disposal of particularly hazardous waste.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Waste disposal key number:**

Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.

**Uncleaned packagings:** Disposal in accordance with official regulations.**Recommendation:**

L e v e l o p m e n t : After optimal emptying, immediately return to the supplier tightly closed and without cleaning. Make sure that no foreign matter gets into the packaging!

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Other containers: Empty completely and clean for reconditioning or reprocessing.

#### \* SECTION 14: Transport information

<b>14.1 UN number or ID number ADR/RID, IMDG, IATA</b>	UN3412
<b>14.2 UN proper shipping name ADR/RID IMDG, IATA</b>	3412 FORMIC ACID FORMIC ACID
<b>14.3 Transport hazard class(es) ADR/RID Class Label</b>	8 (C3) Corrosive substances. 8
<b>IMDG, IATA Class Label</b>	8 Corrosive substances. 8
<b>14.4 Packing group ADR/RID, IMDG, IATA</b>	II
<b>14.5 Environmental hazards: Marine pollutant:</b>	Not applicable. No
<b>14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category Stowage Code</b>	Warning: Corrosive substances. 80 F-A,S-B (SGG1) Acids A SW2 Clear of living quarters.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR/RID Limited quantities (LQ) Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>IMDG Limited quantities (LQ) Excepted quantities (EQ)</b>	1L Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<b>UN "Model Regulation":</b>	UN 3412 FORMIC ACID, 8, II

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## SECTION 15: Regulatory information

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

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

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

#### Hazard pictograms



GHS05 GHS07

Signal word Danger

#### Hazard-determining components of labelling:

formic acid

#### Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

P260 Do not breathe mist/vapours/spray.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

#### LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

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

#### 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 young persons must be observed.

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#### Other regulations, limitations and prohibitive regulations

##### Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### UFI market placements:

Germany, Bulgaria, Denmark, DKE, ESE, European Union, Finland, SFS, France, Greece, Ireland, ISE, Croatia, Latvia, FL, Lithuania, LTE, Malta, Netherland, Norway, Germany, Poland, Portugal, Romania, Sweden, Slovakia, Slovenia, Spain, Czechia, Cyprus

#### Relevant phrases

Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

**Department issuing data specification sheet:** See section 1.3: Responding area

**Date of previous version:** 21.10.2024

**Version number of previous version:** 209.04

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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 Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**\* Data compared to the previous version altered.****ANNEX****Exposure Scenarios:**

Formulation and (re)packaging of substances and mixtures

Use as an intermediate

Use in coatings

Use in cleaning agents

Use in laboratories

Polymer processing

Use as a process chemical

Use in biocidal products

for industry, trade and consumers where applicable

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