according to 1907/2006/EC, Article 31

Printing date 07.06.2021

Scharlau

Revision: 02.06.2021

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

- · 1.1 Product identifier
- · Trade name: Formic acid, solution 10% in water, for cleaning purposes, LC-MS
- · Article number: AC1075
- · Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the preparation: Laboratory reagent
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Scharlab, S.L.
 C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
 Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
 email: scharlab@scharlab.com
 Internet Web Site: www.scharlab.com
- Regional representation: Scharlab, S.L.
 C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN
 Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65
 email: scharlab@scharlab.com
 Internet Web Site: www.scharlab.com
- · Further information obtainable from: technical department

 1.4 Emergency telephone number: Toxicological Information National Institute of Toxicology and Forensic Sciences: + 34 91 562 04 20. The information will be provided (24h/365 days)
 Please contact the regional Scharlab distributor/dealer in your country
 During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

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*



· Signal word Danger

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Trade name: Formic acid, solution 10% in water, for cleaning purposes, LC-MS

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Hazard-determining components of labelling: formic acid
Hazard statements H314 Causes severe skin burns and eye damage.
Precautionary statements 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.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
 Description: Aqueous solution
- Dangerous components:

CAS: 64-18-6 EINECS: 200-579-1 Reg.nr.: 01-2119491174-37-XXXX formic acid Flam. Liq. 3, H226;
Acute Tox. 3, H331;
Skin Corr. 1A, H314;
Acute Tox. 4, H302

5-10%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2** Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
 - No further relevant information available.

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Trade name: Formic acid, solution 10% in water, for cleaning purposes, LC-MS

- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 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.
- Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:
- 64-18-6 formic acid

WEL Long-term value: 9.6 mg/m³, 5 ppm **Additional information:** The lists valid during the making were used as basis.

. 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Respiratory protection:
 In case of brief exposure or low pollution use respirat

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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

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

Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
- Form: Colour:
- **Odour:**
- Odour threshold:
- · pH-value:
- Change in condition Melting point/freezing point: Initial boiling point and boiling range: 100 °C
- · Flash point:
- Flammability (solid, gas):
- Vignition temperature:
- Decomposition temperature:
- Auto-ignition temperature:
- Explosive properties:
- · Explosion limits: Lower: **Upper:**
- Vapour pressure at 20 °C:
- Density at 20 °C:

Fluid Colourless Acrid Not determined. Not determined.

Undetermined.

- Not applicable.
 - Not applicable.
 - 520 °C
 - Not determined.
 - Product is not selfigniting.
 - Product does not present an explosion hazard.
 - 14 Vol % 33 Vol %
 - 43 hPa
 - 1.019 g/cm³

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Trade name: Formic acid, solution 10% in water, for cleaning purposes, LC-MS

(Contd. of page 4)

- Relative density
 Vapour density
 Evaporation rate
 - Solubility in / Miscibility with water:

· Partition coefficient: n-octanol/water:

Not determined. Not determined. Not determined.

Fully miscible. Not determined.

Not determined.

Not determined.

- Viscosity: Dynamic: Kinematic:
- Solvent content: Water:

90.0 %

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

64-18-6 formic acid

Oral LD50 730 mg/kg (rat)

Inhalative LC50/4 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.
- Additional toxicological information:

wisechoi

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

UN3412

3412 FORMIC ACID

FORMIC ACID

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- · 14.1 UN-Number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name
- · ADR
- IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
ADR, IMDG, IATA	П
14.5 Environmental hazards:	
· Marine pollutant:	No
 14.6 Special precautions for user 	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Acids, acids
Stowage Category	В

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			Revision. 02.00.
Trade name: Formic acid, solu	ition 10% in water, for clea	aning purposes, LC-MS	
· Stowage Code	SW	2 Clear of living quarters.	(Contd. of p
 14.7 Transport in bulk ad 	cording to Annex II		
of Marpol and the IBC C		applicable.	
Transport/Additional info ADR			
· Limited quantities (LQ)	l l		
Transport category Tunnel restriction code	NISC 2 E		
• UN "Model Regulation":	UN	3412 FORMIC ACID, 8, I	I
SECTION 15: Regula	tory information		· · · · ·
• 15.1 Safety, health and mixture	environmental regulatio	ns/legislation specific	for the substan
· Directive 2012/18/EU		- Suc	
Named dangerous subs			
 REGULATION (EC) No 1 DIRECTIVE 2011/65/EU 			rdous substanc
electrical and electronic		e use of certain haza	ruous substanc
None of the ingredients is			
• 15.2 Chemical safety ass	essment: A Chemical Sa	fety Assessment has not	been carried out.
SECTION 16: Other i	nformation		
		Llourour this shall not	
This information is based for any specific product fea	on our present knowledge atures and shall not establ	. However, this shall not shall not shall not	constitute a guar tual relationship.
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Scharlau

The wise choice

the wise choice

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.06.2021

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The wise choice

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Trade name: Formic acid, solution 10% in water, for cleaning purposes, LC-MS

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

The wise choice

The wise choice

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Annex: Exposure scenario

- **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- · 2 Conditions of use
- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
 Other operational conditions affecting worker exposure
- Avoid contact with eyes.
- Avoid contact with the skin.
- · Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures
- Ensure that suitable extractors are available on processing machines
- Personal protective measures
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the skin.
- Avoid contact with the eyes.
- Tightly sealed goggles
- Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Measures for consumer protection Ensure adequate labelling.
- Environmental protection measures
- · Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

· Disposal measures

Disposal must be made according to official regulations. Ensure that waste is collected and contained.

· Disposal procedures

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

- · Waste type Partially emptied and uncleaned packaging
- · 3 Exposure estimation

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- Consumer Not relevant for this Exposure Scenario.
- · 4 Guidance for downstream users No further relevant information available.