

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 27 Apr 2022

Print date: 5 May 2022

Version: 5



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

1.1. Product identifier

Trade name/designation:

SIHA Combisäure CS

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

Use of the substance/mixture:

Product for the acidification of Mashers.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

1.4. Emergency telephone number

Notfallauskunft bei Vergiftungen: Giftinformationszentrum Mainz (Deutsch und Englisch).

Emergency medical information: Poison information center Mainz (German and English), 24h: +49 6131 19240

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	

2.2. Label elements

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

Hazard pictograms:



GHS05
Corrosion

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Signal word: Danger

Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

Precautionary statements Prevention

P264 Wash hands thoroughly after handling.

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

Precautionary statements Response

P302 + P352 IF ON SKIN: Wash with plenty of water/....

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER/doctor/....

P362 Take off contaminated clothing.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Description:

Aqueous solution of halogen free acids.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 6915-15-7 EC No.: 230-022-8	malic acid Eye Irrit. 2 (H319) Warning	0 - 15 weight-%
CAS No.: 79-33-4 REACH No.: 01-2119474164-39	L - Milchsäure Eye Dam. 1 (H318), Skin Corr. 1C (H314) Danger EUH071	0 - 4.9 weight-%
CAS No.: 7664-93-9 EC No.: 231-639-5 REACH No.: 01-2119458838-20-0069	sulphuric acid Skin Corr. 1A (H314) Danger Specific concentration limit (SCL) Skin Corr. 1A; H314: $C \geq 15\%$ Skin Irrit. 2; H315: $5\% \leq C < 15\%$ Eye Dam. 1; H318: $C \geq 15\%$ Eye Irrit. 2; H319: $5\% \leq C < 15\%$	0 - 0.3 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

Avoid contact with skin, eyes and clothes.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice.

If breathing is irregular or stopped, administer artificial respiration.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing.

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After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Irritating to eyes and skin.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media: Carbon dioxide (CO₂), Water mist, Foam, Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes.

Do not breathe aerosol.

Use personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up:

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

Dispose of waste according to applicable legislation.

Wash with plenty of water.

6.4. Reference to other sections

No data available

6.5. Additional information

Dilute with plenty of water.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

- Avoid contact with skin, eyes and clothes.
- Do not breathe aerosol.
- Use only in well-ventilated areas.

Fire prevent measures:

- No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

- Keep container tightly closed. Keep in a cool, well-ventilated place.
- Protect from sunlight.
- Protect against: Frost
- Suitable floor material: acid-resistant

Hints on storage assembly:

- Do not store together with: Base, Oxidising agent

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

- Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

- No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.05 mg/m ³
TRGS 900 (DE)	sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.1 mg/m ³ ② 0.1 mg/m ³ ⑤ (einatembare Fraktion)
DFG (DE)	sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.1 mg/m ³ ② 0.1 mg/m ³ ③ 0.2 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. Biological limit values

- No data available

8.1.3. DNEL-/PNEC-values

- No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

- Provide adequate ventilation as well as local exhaust at critical locations.

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8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Use protective skin cream before handling the product.

Thorough skin-cleansing after handling the product.

Hand protection: The selection of suitable gloves not only depends on the material, but also on other quality characteristics. These may vary from manufacturer to manufacturer. Since the product is a preparation from several substances, the resistance of glove materials cannot be determined in advance and must therefore be checked prior to the application.

Suitable material: NR (natural rubber, Natural latex)

Thickness of the glove material: 0,6 mm

Breakthrough time: ca. 480 min

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Suitable respiratory protection apparatus: Filtering device (EN 147) FFP2

Other protection measures:

Protective clothing: lab coat

General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Thorough skin-cleansing after handling the product. Take off immediately all contaminated clothing.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: odourless

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	1.3 - 1.8	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	<i>not determined</i>		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not determined</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	≈ 1.035 - ≈ 1.06 g/ml	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	<i>not determined</i>		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

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9.2. Other information

Entzündlichkeit (Feststoff/Gas): not determined
Selbstentzündlichkeit (Feststoff/Gas): not determined
Oxidising properties: not determined
Explosionsgefahr: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Substance is, under normal conditions, chemically stable.

10.3. Possibility of hazardous reactions

Reaction with: Alkali (lye)

10.4. Conditions to avoid

Protect against: Heat ; Frost

10.5. Incompatible materials

Alkali (lye), Oxidising agent

10.6. Hazardous decomposition products

Carbon dioxide (CO₂), Carbon monoxide

Further information

This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 11: Toxicological information

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

Substance name	Toxicological information
L - Milchsäure CAS No.: 79-33-4	LD₅₀ oral: 3,730 mg/kg (Rat) IUCLID LD₅₀ dermal: 2,000 mg/kg (Rabbit) IUCLID
sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	LD₅₀ oral: 510 mg/kg (Ratte) IUCLID LC₅₀ Acute inhalation toxicity (gas): 510 mg/m ³ 2 h (Ratte) (IUCLID)

Acute oral toxicity:

Toxicological data are not available.
Following ingestion: Gastrointestinal complaints, Nausea, Vomiting

Acute dermal toxicity:

Toxicological data are not available.

Acute inhalation toxicity:

Toxicological data are not available.

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

Processing vapours can irritate the respiratory tracts, skin and eyes.

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

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Reproductive toxicity:

No data available

STOT-single exposure:

No data available

STOT-repeated exposure:

No data available

Aspiration hazard:

No data available

Additional information:

Specific symptoms in animal studies: No data available

Repeated dose toxicity (subacute, subchronic, chronic): No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

No environmental effect. are known.

No data available

Terrestrial toxicity:

No data available

Effects in sewage plants:

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Further ecological information: Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The waste code numbers according to the German Waste Catalogue are substance-related, while the Waste code numbers according to the European Waste Catalogue (EWC code) are source-related. The exact assignment to a waste code according to the EWC code can only be undertaken by the user who generates waste products from them requiring disposal.

Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Water

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not classified according to StörfallVO.

Water hazard class

WGK:

1 - schwach wassergefährdend

Source:

Anh. 4

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

2.1.	Classification of the substance or mixture
3.2.	Mixtures
4.1.	Description of first aid measures
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Skin corrosion/irritation (<i>Skin Corr. 1</i>)	H314: Causes severe skin burns and eye damage.	

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

Hazard statements	
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Supplemental hazard information	
EUH071	Corrosive to the respiratory tract.

16.6. Training advice

No data available

16.7. Additional 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.

* Data changed compared with the previous version