

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Eco ontkalker

Version 1.0

Issue date: 13/01/2020

Revision date: 21/02/20

SDS Record Number: CSSS-TCO-010-121609

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Eco ontkalker
Additional identification: Not available
Identification of the product: See section 3
Index Number: Not available
REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Removal of mineral deposits on water heater elements

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Arcerion
Supplier(Manufacturer): CAFFENU
Address: Gabrielenstr. 15 80636 München Germany
Contact person(E-mail): rowan@caffenu.com
Telephone: +49.3222.1097481
Fax: -

1.4 Emergency telephone Number:

+49.3222.1097481

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Skin Irrit. 2	H315
Eye Dam. 1	H318

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:



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Signal Word(S): Danger

Hazard Statement: H315: Causes skin irritation.
H318: Causes serious eye damage.

Precautionary statement: P102: Keep out of reach of children.
P264: Wash skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310: Immediately call a POISON CENTER or doctor/physician.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents/container in accordance with local regulation.

2.3 Other hazards:
Not applicable.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Lactic acid	01-2119474164-39-0004	79-33-4	201-196-2	<45%	H315 H318
Tetrasodium Glutamate Diacetate	01-2119493601-38-0000	51981-21-6	257-573-7	<3%	Not Classified
Water/H2O distilled	N/A	N/A	N/A	>50%	Not Classified

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

If breathed in, move person into fresh air. If symptoms persist, call a physician.

4.1.2 In case of skin contact:

In case of contact, immediately flush skin with soap and plenty of water. If skin irritation persists, call a physician. Take off contaminated clothing and shoes immediately.

4.1.3 In case of eyes contact:

Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4.1.4 In case of ingestion:

If swallowed, seek medical advice immediately and show this container or label. Gently wipe or rinse the inside of the mouth with water. If swallowed, DO NOT induce vomiting.

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

Causes skin irritation. Causes serious eye damage.

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

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No further relevant information available.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray, Dry powder, Foam, Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products may be formed under fire conditions. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapour or mist. Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated.

6.1.2 For emergency responders:

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.2 Environmental Precautions:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

6.3 Methods for Containment and Cleaning up:

See Section 7 for information on safe handling.

6.4 Reference to other sections:

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:

7.1.1 Protective measures:

For personal protection see section 8. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Normal measures for preventive fire protection.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original container. Keep in an area equipped with acid resistant flooring. Incompatible with bases. Storage temperature: > 5 °C

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Not available.

8.1.2 Additional exposure limits under the

Not available.

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear eye/face protection.

Hand protection: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.

Body protection: Wear suitable protective clothing.

Respiratory protection: In the case of vapor formation use a respirator with an ap-proved filter.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colorless very light yellow
Odour:	Not available
Odour threshold:	Not available
pH:	1.7+-0.2
Melting point/range (°C):	< -80 °C(CAS#79-33-4)
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density:	1.038kg/ltr
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	ca. -0.54(CAS#79-33-4)
Auto-ignition temperature:	>= 400 °C(CAS#79-33-4)
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified) Not available
 etc:
 Surface tension: 70.7 mN/m(CAS#79-33-4)
 Dissociation constant in water(pKa): Not available

Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.
 10.2 Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.
 10.3 Possibility of hazardous reactions: No dangerous reactions known.
 10.4 Conditions to avoid: Incompatible materials.
 10.5 Incompatible materials: Bases, Oxidizing agents.
 10.6 Hazardous decomposition products: Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Lactic acid(CAS#79-33-4)

LD50(Oral, Rat): 3543 mg/kg bw(female); 4936 mg/kg bw(male)
 LD50(Dermal, Rabbit): > 2000 mg/kg bw
 LC50(Inhalation, Rat): > 7.94 mg/L air 4 h
 Skin corrosion/Irritation: Causes skin irritation.
 Serious eye damage/irritation: Causes serious eye damage.
 Respiratory or skin sensitization: Not classified
 Germ cell mutagenicity: Not classified
 Carcinogenicity: Not classified
 Reproductive toxicity: Not classified
 STOT- single exposure: Not classified
 STOT-repeated exposure: Not classified
 Aspiration hazard: Not classified

Section 12 Ecological information

12.1 Toxicity:

Lactic acid(CAS#79-33-4)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	130 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	ca. 3.5 g/L	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: **Method: OECD 301D Result, Readily Biodegradable**
Product is miscible in water, readily biodegradable in water and soil. Accumulation is not expected
 12.3 Bioaccumulative potential:
 12.4 Mobility in soil: Not available.
 12.5 Results of PBT&vPvB assessment: Not applicable

12.6 Other adverse effects:

Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Relevant information regarding authorization:**

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable

15.2 Chemical Safety Assessment has been carried out?

YES

NO

Section 16 Other information**16.1 Indication of changes:**

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.