

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Trade name**

Milk System Cleaner

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

Milk System Cleaner

Professional user, Private user, consumer

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet**Supplier**

LIGRE GmbH & Co KG

Address

Innstrasse 2

6342 Niederndorf

Austria

Telephone

+43 5373 62190 600

Email

ligre@ligre.com

Contact person

Regulatory Affairs

Email

info@budich.de

1.4. Emergency telephone number

+49 5223 9970 990

Available outside office hours

Yes

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
sodium carbonate	497-19-8 207-838-8 01-2119485498-19-xxxx 011-005-00-2	5 - <10%	Eye Irrit. 2	H319 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

Take the victim into fresh air.

Skin contact

Wash off with soap and water.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.

Information for doctors

Show this safety data sheet to the doctor in attendance.

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

Inhalation

None known.

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

Skin contact

May cause skin irritation.

Eye contact

May cause eye irritation.

Ingestion

Ingestion may cause stomach irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

None known.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

Measures in case of fire

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**

No special precautions required.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. sand, silica gel, sawdust...).

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

6.4. Reference to other sections

For information on storage and handling see section 7.
For information on exposure and personal protective equipment, see Section 8.
For information on incompatible materials, see Section 10.
For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

No special precautions required.

General hygiene

Wash hands after handling.
When using, do not eat, drink or smoke.
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from food, drink and animal feeding stuffs.
Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 12 (non-flammable liquids)

Storage temperature: 10°C to 40°C
Protect from frost.

7.3. Specific end use(s)

See section 1.2: Milk System Cleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
sodium carbonate (497-19-8/207-838-8)	DNEL	Chronic (long term) Inhalation	10 mg/m³	Workers	Local

8.2. Exposure controls

Appropriate engineering controls

Not required.

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

Eye / face protection

Not required.

Hand protection

Recommended preventive skin protection :

Wear chemical-resistant disposable protective gloves according to EN 374.

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

colourless

Odour

odourless

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not determined for the mixture.

Boiling point or initial boiling point and boiling range

Not determined for the mixture.

Flammability

Not applicable.

Lower and upper explosion limit

The product / mixture has no explosive properties.

Flash point

No data available

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Milk System Cleaner

Auto-ignition temperature

Not applicable.

Decomposition temperature

Not determined for the mixture.

pH

10 - 11

Method

pH concentrate

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

No data available

Water solubility

Miscible

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

Not determined for the mixture.

Density and/or relative density

1.02 g/cm³

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

The product / mixture has no explosive properties.

Oxidising properties

The product / mixture has no oxidizing properties.

VOC %

0 %

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

No information available

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

SECTION 10: Stability and reactivity

- 10.1. Reactivity**
Stable at normal conditions
- 10.2. Chemical stability**
The product is chemically stable.
- 10.3. Possibility of hazardous reactions**
None under normal use.
- 10.4. Conditions to avoid**
Protect from frost, heat and sunlight.
- 10.5. Incompatible materials**
None known.
- 10.6. Hazardous decomposition products**
For information on combustion products, see Section 5.

SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**
Toxicology data for the components

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

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals
sodium carbonate 497-19-8 / 207-838-8	LD50	2.800 mg/kg	Oral	-	rat
sodium carbonate 497-19-8 / 207-838-8	LD50	>2.000mg/kg	Dermal	-	rabbit
sodium carbonate 497-19-8 / 207-838-8	LC50	2.300 mg/m³	Inhalativ	2h	rat

Skin corrosion/irritation
Based on the available data, the classification criteria are not met.

Serious eye damage/irritation
Based on the available data, the classification criteria are not met.

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
sodium carbonate 497-19-8 / 207-838-8	LC50	300 mg/l	96h	Lepomis macrochirus

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
sodium carbonate 497-19-8 / 207-838-8	EC50	200-227 mg/l	48h	Ceriodaphnia dubia

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

12.2. Persistence and degradability

Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility

No information available.

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of in accordance with local regulations

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging: Dispose of as unused product.

Waste code	Waste description
20 01 30	detergents other than those mentioned in 20 01 29

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Milk System Cleaner

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3. Transport hazard class(es)

Label

Not classified as dangerous in the meaning of transport regulations.

14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6. Special precautions for user

Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

Other

Not applicable

SAFETY DATA SHEET
According to Regulation (EC) No 1907/2006
Milk System Cleaner

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: <5 % phosphonates, non-ionic surfactants.

Regulation (EC) No. 1272/2008 (CLP)

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Milk System Cleaner

SECTION 16: Other information

Abbreviations

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ADR - Accord relatif au transport international des marchandises Dangereuses par Route
 CAS - Chemical Abstract Service
 CLP - Classification, Labelling and Packaging
 DMEL - Derived Minimum Effect Level
 DNEL - Derived no effect level
 EC50 - Half maximal effective concentration 50%
 GHS - Globally Harmonised System
 IATA - International Air Transport Association
 IMDG - International Maritime Dangerous Goods
 LC50 - Lethal concentration 50%
 LD50 - Lethal dosis 50 %
 MARPOL - International Convention for the Prevention of Pollution from Ships
 PBT - Persistent, bioaccumulative and toxic substance
 PEC - Predicted Environmental Concentration
 PNEC - predicted no effect concentration
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses
 SVHC - Substance of very high concern
 vPvB - Very persistent, very bioaccumulative substance

References to key literature and data sources

REACH registration dossiers
 ECHA C&L - Inventory
 Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:
 Health hazards: calculation method

Phrase meaning

Eye Irrit. 2 - Eye irritation, hazard category 2
 H319 Causes serious eye irritation.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.