

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

1.1 Product identifier

Trade name: Milkpure 1000 mL

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

General use: Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company name: IBEDA-CHEMIE Klaus P. Christ GmbH

Street/POB-No.: Am Eichelgärtchen 32

Postal Code, city: 56283 Halsenbach

Germany

E-mail: info@ibeda-chemie.com

Telephone: +49 (0)6747-9501-0

Telefax: +49 (0)6747-9501-11

Dept. responsible for information:

Herr Dohmann, Telephone: +49 (0)6747-9501-16

1.4 Emergency telephone number

GIZ Mainz, Germany,

Telephone: +49 (0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

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

Precautionary statements: P102 Keep out of reach of children.
P264 Wash hands and face thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.

Special labelling

Text for labelling:

Contains < 5%: cationic surfactants, 5 - < 15% phosphates.
Contains CAS 68424-85-1: Quaternary ammonium compounds,
benzyl-C12-16-alkyldimethyl, chlorides = 18,75 g/kg
Registration number according to "Biozid-Meldeverordnung": N-26275.
Product-type 4: Food and feed area
Use biocides safely. Always read the label and product information before use.

2.3 Other hazards

Contains phosphates: May contribute to the eutrophication of water supplies.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 201-196-2 CAS 79-33-4	Lactic acid	< 15 %	Skin Irrit. 2; H315. Eye Dam. 1; H318.
EC No. 231-633-2 CAS 7664-38-2	Phosphoric acid	< 5 %	Met. Corr. 1; H290. Skin Corr. 1B; H314.
EC No. - CAS 97043-91-9	Fatty alcohol polyglycol ether	< 3 %	Acute Tox. 4; H302. Eye Dam. 1; H318.
EC No. 270-325-2 CAS 68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	< 2 %	Acute Tox. 4; H302. Skin Corr. 1B; H314. Aquatic Acute 1; H400.

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information: If you feel unwell, seek medical advice.

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: Remove contaminated clothing. Wash affected skin with generous amount of water. Soda solution (5-10%) can be used for removal of residues. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth with water. Drink large quantities of water.
Never give an unconscious person anything through the mouth.
Do not induce vomiting. Consult physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Alcohol is strongly contraindicated.
Contains bactericide.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, carbon dioxide, foam, sand.

Extinguishing media which must not be used for safety reasons:

If possible, do not extinguish with water.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO_x), phosphorus compounds, hydrogen chloride, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire water reacts acidic.

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/aerosol. In case of accident or if you feel unwell, seek medical advice immediately. Provide adequate ventilation.

In case of handling larger quantities: Wear appropriate protective equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.

Final cleaning: Wash spill area with plenty of water.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Transfer and handle product only in closed systems.
Provide adequate ventilation, and local exhaust as needed.
Keep your workplace clean.
Avoid contact with skin, eyes, and clothing. Do not breathe vapour/aerosol.
When using do not eat, drink or smoke.
In case of handling larger quantities: Wear appropriate protective equipment. Keep unprotected people away.

Precautions against fire and explosion:
Usual measures for fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed in a cool, well-ventilated place.
Protect against heat, sun rays and frost.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7664-38-2	Phosphoric acid	Europe: IOELV: STEL	2 mg/m ³
		Europe: IOELV: TWA	1 mg/m ³
		Great Britain: WEL-STEL	2 mg/m ³
		Great Britain: WEL-TWA	1 mg/m ³
		Ireland: 15 minutes	2 mg/m ³
		Ireland: 8 hours	1 mg/m ³

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.
Dust mask/Particulates filter P1 according to EN 143.

Hand protection: Protective gloves according to EN 374.
Glove material: Nitrile rubber - NBR 0.11 mm.
Breakthrough time: > 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing.

Avoid formation of aerosols/vapours. Do not breathe vapour/aerosol.

Have eye wash bottle or eye rinse ready at work place.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance:	Form: liquid Colour: blue
Odour:	characteristic
Odour threshold:	No data available
pH value:	at 20 °C, 10 g/L: approx. 3.2
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 100 °C
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	not combustible
Explosion limits:	No data available
Vapour pressure:	at 20 °C: (Water) 20 hPa
Vapour density:	No data available
Density:	at 20 °C: 1.09 g/mL
Water solubility:	miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	> 100 °C
Viscosity, kinematic:	No data available
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Excessive heating. Avoid formation of aerosols/vapours. Protect against heat, sun rays and frost.

10.5 Incompatible materials

Strong acids, alkalis

10.6 Hazardous decomposition products

In case of fire may be liberated:

Nitrogen oxides (NO_x), Phosphorus compounds, hydrogen chloride, carbon monoxide and carbon dioxide

Thermal decomposition: > 100 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): 2000 mg/kg > ATE ≤ 5000 mg/kg.

Information about Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:
LD50, Rat, oral: 426 mg/kg

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Symptoms

In case of ingestion:

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Lactic acid
Algae toxicity:
IC50 Selenastrum capricornutum : 3500 mg/L/72 h (OECD 201).
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 240 mg/L/48 h (OECD 202).
Fish toxicity:
LC50 Brachydanio rerio (zebra-fish): 320 mg/L/96 h (OECD 203).
Information about Phosphoric acid
Daphnia toxicity:
EC50 Daphnia magna: pH 4,6 /12h.
LD50 Gammarus pulex: pH 3,4 /12h.
Fish toxicity:
LC50 Lepomis macrochirus (bluegill) pH 3 - 3,5 /96 h.
LC50 Gambusia affinis: 138 mg/L/96h.

12.2 Persistence and degradability

Further details: Information about Lactic acid
Ultimate biodegradation: 50 % /5 d (Compared to pure substance).
BSB5: 50% of COD (Compared to pure substance)
CSB: 100% of ThSB The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Effects in sewage plants: Do not bring higher quantities to clarification plants.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Contains phosphates: May contribute to the eutrophication of water supplies.
Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 20 01 29* = Municipal wastes: Detergents containing hazardous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Smaller amounts: Dilute with plenty of water.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging.

Recommendation: Rinse with water. Wrap waste as is appropriate for the type of material.
Single packs can be disposed of together with household waste.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Marine pollutant:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code:

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No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:

Registration number according to "Biozid-Meldeverordnung": N-26275

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H290 = May be corrosive to metals.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H400 = Very toxic to aquatic life.

Date of first version: 17/5/2003

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.