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

1.1 Product identifier

Trade name: Special Cleaner for milk systems acidic

UFI: TJ10-906G-200M-RWQW

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: DE-56283 Halsenbach
E-mail: info@ibeda-chemie.com
Telephone: +49 (0)6747-9501-0
Telefax: +49 (0)6747-9501-11
Department responsible for information:
Herr Christ, Telephone: +49 (0)6747-95010 (Only available during office hours.)

1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240

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.
Aquatic Chronic 3; H412	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)

Signal word: **Danger**

Hazard statements:	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements:	P102	Keep out of reach of children.
	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	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.
	P501	Dispose of contents to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains Lactic acid.

Labelling for contents according to regulation (EC) No 648/2004, annex VII:
Contains
- less than 5% cationic surfactants
- 5% or over but less than 15% phosphates

2.3 Other hazards

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

Endocrine disrupting properties, Results of PBT and vPvB assessment:
The product does not contain any as PBT or vPvB classified substances.

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:

Identifiers	Designation Classification	Content
EC No. 201-196-2 CAS 79-33-4	Lactic acid Skin Irrit. 2; H315. Eye Dam. 1; H318.	< 15 %
EC No. 231-633-2 CAS 7664-38-2	Phosphoric acid Met. Corr. 1; H290. Skin Corr. 1B; H314. Specific concentration limits (SCL): Skin Corr. 1B; H314: C ≥ 25 % / Skin Irrit. 2; H315: 10 % ≤ C < 25 % / Eye Irrit. 2; H319: 10 % ≤ C < 25 %	< 5 %
EC No. - CAS 97043-91-9	Fatty alcohol polyglycol ether Acute Tox. 4; H302. Eye Dam. 1; H318.	< 3 %
REACH 01-2119970550-39-xxxx list no. 939-350-2 CAS 85409-22-9	Benzyl-C12-14-alkyldimethylammonium chlorides Met. Corr. 1; H290. Acute Tox. 4; H302. Skin Corr. 1B; H314. Eye Dam. 1; H318. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	< 2 %

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: Take off contaminated clothing and wash it before reuse. 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, if present and easy to do. Continue rinsing. 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. Immediately get medical attention.

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:
Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NOx), 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. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

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, siliceus 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. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

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/m³
		Europe: IOELV: TWA	1 mg/m³
		Great Britain: WEL-STEL	2 mg/m³
		Great Britain: WEL-TWA	1 mg/m³
		Ireland: 15 minutes	2 mg/m³
		Ireland: 8 hours	1 mg/m³

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 contaminated clothing and wash it before reuse.
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.
Have eye wash bottle or eye rinse ready at work place.

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:	Physical state at 20 °C and 101.3 kPa: liquid Colour: blue
Odour:	characteristic
Odour threshold:	No data available
pH:	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

No hazardous decomposition products when regulations for storage and handling are observed.

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): 2,000 mg/kg < ATE <= 5,000 mg/kg.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

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

Serious 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.

Other information: Information about Benzyl-C12-14-alkyldimethylammonium chlorides:
LD50 Rat oral: 795 mg/kg bw (OECD 401)

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 Danio rerio (zebrafish): 320 mg/L/96 h (OECD 203).

Information about Phosphoric acid:
Fish toxicity:
Median value (lethal) Lepomis macrochirus (bluegill): pH 3 - 3.25 (96h)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): >100 mg/L/48h (OECD 202)
NOEC Daphnia magna (Big water flea): 56 mg/L/48h (OECD 202)
Algae toxicity:
EC50 Desmodesmus subspicatus (green algae): >100 mg/L/72 h (OECD 201)
NOEC Desmodesmus subspicatus (green algae): 100 mg/L/72 h (OECD 201)

Information about Benzyl-C12-14-alkyldimethylammonium chlorides:
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae), Growth inhibition: 0.049 mg/L/72h (OECD 201)
EC50 Pseudokirchneriella subcapitata (green algae), Growth inhibition: 0.03 mg/L/96h (OECD 201)
Daphnia toxicity:
EC50 Daphnia: 0.016 mg/L/48h (EU Methid C.2)
EC50 Daphnia magna (Big water flea): 5.9 ppb/48h
NOEC Daphnia: 0.025 mg/L/21d (OECD 211)
Fish toxicity:
LC50 Cyprinodon variegatus, marine water: 1.28 mg/L/96h (OECD 203)
LC50 Lepomis macrochirus (bluegill), freshwater: 0.515 mg/L/96h
LC50 Pimephales promelas (fathead minnow): 0.28 ppm/96h
NOEC Pimephales promelas (fathead minnow): 0.0322 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

The product does not contain any as PBT or vPvB classified substances.

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.

Package

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: -

No data available

National regulations - EC member states

Labelling of packaging with <= 125mL content

Signal word:	**Danger**	
Hazard statements:	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements:	P102	Keep out of reach of children.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	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.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

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:

H315 = Causes skin irritation.
H318 = Causes serious eye damage.
H412 = Harmful to aquatic life with long lasting effects.
H290 = May be corrosive to metals.
H314 = Causes severe skin burns and eye damage.
H302 = Harmful if swallowed.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

Acute Tox.: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
COD: Chemical Oyxgen Demand
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EN: European Standard
EQ: Excepted quantities
Eye Dam.: Eye damage
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
Met. Corr.: Corrosive to metals
M-factor: Multiplication factor
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: UFI

Date of first version: 22/1/2015

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.

Most recent product information is available at
http://sumdat.net/tuyidew1