

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) 2015/830)

Disinfectant Kaldewei

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

1.1. Product identifier

Product code 279.826

Synonyms CPID 539100

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

Use of the Substance/Mixture [PT 02] Disinfectants and algaecides not intended for direct applica-

tion to humans or animals.

Whirl Pool bath

Categories of users: professional AND private users.

Uses advised against

No further relevant information available

1.3. Details of the supplier of the safety data sheet

Company/Undertaking <u>Switzerland</u>:

Identification Franz Kaldewei AG

Rohrerstrasse 100, CH - 5000 Aarau

Tel.: +41 62 205 21 00 (8-17h) / Fax : +41 62 212 16 54 Info-desk: info.schweiz@kaldewei.com / www.kaldewei.ch

Germany:

Franz Kaldewei GmbH & Co. KG Beckumer Str. 33 – 35, D - 59229 Ahlen

Tel.: +49 2382 785 0 / Fax: +49 2382 785 200 / info@kaldewei.de

1.4. Emergency telephone

number Tel. 145 / +41 (0)44 251 51 51 - info@toxi.ch

Issuing date 28.07.2016

Version 1

Tox Info Suisse: [24h/7d]

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Skin corrosion/irritation, Cat. 1B, H314 Regulation (EC) No. 1272/2008 Corrosive to metals, Cat. 1, H290

Hazardous to the aquatic environment, chronic, Cat. 1, H410

Additional information For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements





Signal Word Danger

Hazard Statements H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage. H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements P101: If medical advice is needed, have product container or

label at hand.

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P302a: IF ON SKIN: wash off immediately with plenty of water. P305a: IF IN EYES: Rinse immediately with plenty of water, also

under the eyelids.

P501: Dispose of contents/ container to an approved waste

disposal plant.

Supplemental information None.

Product identifier Alcohols, C9-11, ethoxylated, CAS-No. 68439-46-3

Contents of package < 125 ml





H314: Causes severe skin burns and eye damage.

P101: If medical advice is needed, have product container or

label at hand.

Danger

P102: Keep out of reach of children.

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

Packaging If available for privat use:

Child resistant fastenings (EN 862). Tactile warning of danger (EN/ISO 11683).

2.3. Other hazards No information available.

3. Composition/information on ingredients

Chemical characterization Aqueous solution; contains biocidal active substances

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Components		CLP Classification	Product identifier
Alcohols, C9-11, ethoxylated	5% - 10%	Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Acute 1 H400	CAS-No.: 68439-46-3
Ampholyt 20	1% - 3%	Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Acute 1 H400	CAS-No.: 139734-65-9 EC-No.:
L-(+)-lactic acid	5% - 10%	Skin Irrit. 2 H315, Eye Dam. 1 H318	CAS-No.: 79-33-4 EC-No.: 201-196-2
ADBAC/BCK (C12-C16)	3% - 5%	Skin Corr. 1B H314, Acute Tox. 4 H312, Acute Tox. 4 H302, Aquatic Acute 1 H400	CAS-No.: 68424-85-1 EC-No.: 270-325-2
Cocamidopropyl betaine	1% - 3%	Skin Irrit. 2 H315, Eye Irrit. 2 H319, Aquatic Acute 1 H400	CAS-No.: 61789-40-0 EC-No.: 263-058-8
Acetic acid	0.1% - 1%	Skin Corr. 1A H314, Flam. Liq. 3 H226 [CSk1A: C ≥ 90 % CSk1B: 25 % ≤ C < 90 % CSk2: 10 % ≤ C < 25 % CEy2: 10 % ≤ C < 25 %]	CAS-No.: 64-19-7 EC-No.: 200-580-7 Index-No: 607-002-00-6
Citric acid	5% - 10%	Eye Irrit. 2 H319	CAS-No.: 5949-29-1 EC-No.: 201-069-1
Propan-2-ol	5% - 10%	Eye Irrit. 2 H319, STOT SE 3 H336, Flam. Liq. 2 H225	CAS-No.: 67-63-0 EC-No.: 200-661-7 Index-No: 603-117-00-0

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash off with plenty of water. Remove contaminated clothing and

shoes. Consult a physician for severe cases.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. If easy to do, remove contact lens, if worn.

Consult an ophthalmologist.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not

induce vomiting. If swallowed, seek medical advice immediately and

show this container or label.

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

None known.

Disinfectant Kaldewei

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

None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water. Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. The product itself does not burn.

5.3. Advice for firefighters

Special protective equipment for firefighters

Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus.

Specific methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

Use personal protective equipment. Avoid contact with skin and

eyes. Do not breathe aerosol / mist.

Advice for emergency

responders

Use personal protective equipment. Do not breathe aerosol / mist. In the case of vapour formation use a respirator with filter model .

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 inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

6.4. Reference to other sections

See chapter 8 and 13.

7. Handling and storage

7.1. Precautions for safe

handling

Wear personal protective equipment. Do not empty into drains. Avoid inhalation, ingestion and contact with skin and eyes. Use only in well-ventilated areas. Avoid formation of aerosol. Observe label precautions. Prepare the working solution as given on the label(s) and/or the user instructions.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store in a place accessible by authorized persons only. Store in original container. Keep in a wellventilated place. Keep tightly closed in a dry and cool place. May be corrosive to metals. Storage class (CH) 8B.

7.3. Specific end use(s) Use only in accordance with our recommendations.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

Acetic acid (CAS 64-19-7)

Switzerland - Occupational 10 ppm TWA [MAK] Exposure Limits - TWAs - (MAKs) 25 mg/m3 TWA [MAK] Switzerland - Occupational 20 ppm STEL [KZW] Exposure Limits - STELs - (KZWs) 50 mg/m3 STEL [KZW]

Propan-2-ol (CAS 67-63-0) Switzerland - Occupational Exposure Limits - TWAs - (MAKs)

Switzerland - Occupational Exposure Limits - STELs - (KZWs)

Switzerland - Biological Limit

Values (BAT-Werte)

200 ppm TWA [MAK] 500 mg/m3 TWA [MAK] 400 ppm STEL [KZW] 1000 mg/m3 STEL [KZW]

25 mg/L Medium: urine Time: end of shift Parameter: Acetone 25 mg/L Medium: whole blood Time: end of shift Parameter:

Acetone

8.2. Exposure controls

Avoid contact with skin, eyes and clothing. Handle in accordance Occupational exposure controls

with good industrial hygiene and safety practice. General industrial

hygiene practice. Keep away from food and drink.

Personal protection equipment

Respiratory protection Not required; except in case of aerosol formation. In case of

insufficient ventilation wear suitable respiratory equipment.

Respirator with filter.

Protective gloves complying with EN 374. Gloves made of latex. Hand protection

Break through time: > 8 h.

Eye protection Safety glasses with side-shields conforming to EN166. Eye wash

bottle with pure water.

Long sleeved clothing. Choose body protection according to the Skin and body protection

amount and concentration of the dangerous substance at the work

place.

Thermal hazards Do not heat the product.

Environmental exposure controls Prevent leaks and prevent soil / water pollution caused by leaks.

Bund storage facilities to prevent soil and water pollution in the event of spillage. Dispose of waste product or used containers

according to local regulations.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form Liquid.
Colour Light yellow.
Odour Characteristic.

Odour Threshold No information available.

pH: 6.5 ± 0.5

Melting point/range:No information available. **Boiling point/range:**No information available.

Flash point: does not flash

Evaporation Rate:

Flammability:

Explosion limits:

Vapour pressure:

Vapor density:

No information available.

Relative density: 1

Water solubility: completely miscible Partition coefficient (n- No information available.

octanol/water):

Autoignition temperature: No information available. Decomposition temperature: No information available.

Viscosity: ca. 30 mPas

Combustion/explosion hazards: none **Oxidizing properties:** none

9.2. Other information

General Product Characteristics No information available.

10. Stability and reactivity

10.1. Reactivity See section 10.3

10.2. Chemical stabilityNo decomposition if stored and applied as directed.

10.3. Possibility of hazardous

reactions

No hazards to be specially mentioned.

10.4. Conditions to avoid Heating in air. Do not freeze.

10.5. Incompatible materials Keep away from oxidising agents, strongly alkaline and strongly

acid materials in order to avoid exothermic reactions. Corrodes

base metals.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data is available on the product itself.

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

Oral LD50 Rat = 1400 mg/kg (NZ_CCID)

L-(+)-lactic acid (CAS 79-33-4)

Dermal LD50 Rabbit > 2000 mg/kg (IUCLID) Oral LD50 Rat = 3730 mg/kg (IUCLID)

Quaternary ammonium compounds, benzyl-C12-16-

alkyldimethyl, chlorides (CAS 68424-85-1)
Oral LD50 Rat = 426 mg/kg (NLM_CIP)
Cocamidopropyl betaine (CAS 61789-40-0)
Dermal LD50 Rabbit > 2000 mg/kg (OECD_SIDS)
Oral LD50 Rat > 10000 mg/kg (OECD_SIDS)

Acetic acid (CAS 64-19-7)

Dermal LD50 Rabbit = 1060 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 11.4 mg/L 4 h(NLM_CIP) Oral LD50 Rat = 3310 mg/kg (JAPAN_GHS)

propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)

Dermal LD50 Rabbit = 4059 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 72600 mg/m3 4 h(JAPAN_GHS)

Oral LD50 Rat = 1870 mg/kg (JAPAN_GHS)

Skin corrosion/irritation Causes severe burns.

Serious eye damage/eye

irritation

Causes eye burns.

Respiratory / Skin Sensitisation Negligible.

Carcinogenicity Contains no ingredient listed as a carcinogen

Germ cell mutagenicity Contains no ingredient listed as a mutagen.

Reproductive toxicityContains no ingredient listed as toxic to reproduction.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No aspiration toxicity classification.

Human experience No data is available on the product itself.

Symptoms related to the physical, chemical and toxicological characteristics

Causes severe burns. Risk of serious damage to eyes.

12. Ecological information

12.1. Toxicity No data is available on the product itself.

Alcohols, C9-11	, ethoxylated	(CAS 68439-46-3)
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EU - Ecolabel (66/2010) -Detergent Ingredient Database -**Anaerobic Degradation**

Biodegradable under anaerobic conditions. (listed under Alcohol ethoxylate (C9-11, DID-no 021 >3-6 ethoxylated units, DID-no 022 >6-10 ethoxylated units) predominantly linear)

L-(+)-lactic acid (CAS 79-33-4)

Ecotoxicity - Freshwater Fish -Acute Toxicity Data

96 h LC50 Brachydanio rerio: 320 mg/L [semi-static] (IUCLID) 96 h LC50 Lepomis macrochirus: 100 - 180 mg/L [static] (EPA) 96 h LC50 Oncorhynchus mykiss: 100 - 180 mg/L [static] (EPA)

Ecotoxicity - Water Flea - Acute

Toxicity Data

48 h EC50 Daphnia magna: 240 mg/L (IUCLID) 48 h EC50 Daphnia magna: 180 - 320 mg/L [Static] (EPA)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS 68424-85-1) EC50/48h/daphnia = 0.015 mg/l.

Cocamidopropyl betaine (CAS 61789-40-0)

Ecotoxicity - Freshwater Fish -Acute Toxicity Data

Ecotoxicity - Water Flea - Acute

Toxicity Data

Ecotoxicity - Freshwater Algae -**Acute Toxicity Data**

Acetic acid (CAS 64-19-7) Ecotoxicity - Freshwater Fish -

Acute Toxicity Data

Ecotoxicity - Water Flea - Acute

Toxicity Data

Propan-2-ol (CAS 67-63-0)

Ecotoxicity - Freshwater Fish -Acute Toxicity Data

Ecotoxicity - Water Flea - Acute **Toxicity Data**

Ecotoxicity - Freshwater Algae -

Acute Toxicity Data

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

96 h LC50 Brachydanio rerio: 1.0 - 10.0 mg/L (IUCLID)

96 h LC50 Brachydanio rerio: 2 mg/L [semi-static] (IUCLID)

48 h EC50 Daphnia magna: 6.5 mg/L (IUCLID)

72 h EC50 Desmodesmus subspicatus: 1.0 - 10.0 mg/L (IUCLID)

96 h EC50 Desmodesmus subspicatus: 0.55 mg/L (IUCLID)

96 h LC50 Pimephales promelas: 79 mg/L [static] (EPA) 96 h LC50 Lepomis macrochirus: 75 mg/L [static] (EPA)

48 h EC50 Daphnia magna: 65 mg/L [Static] (EPA)

96 h LC50 Pimephales promelas: 9640 mg/L [flow-through]

(IUCLID)

96 h LC50 Pimephales promelas: 11130 mg/L [static] (IUCLID)

96 h LC50 Lepomis macrochirus: >1400000 µg/L (EPA) 48 h EC50 Daphnia magna: 13299 mg/L (IUCLID)

96 h EC50 Desmodesmus subspicatus: >1000 mg/L (IUCLID) 72 h EC50 Desmodesmus subspicatus: >1000 mg/L (IUCLID)

Surfactants contained comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

No data is available on the product itself.

No data is available on the product itself.

This preparation contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT).

Water contaminating class (CH): A

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products

Do not empty into drains. Do not put residues of product into household waste. It should be given in the original package to the official waste disposal authorities. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions: EWC waste disposal No: 07 04 99. Product rest to be treated as

hazardous waste.

Contaminated packaging

Rinse empty containers with water and use the rinse water to prepare the working solution. Dispose of as unused product. Waste disposal number 15 01 02.

14. Transport information

ADR/RID UN 1760.

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Quaternary

ammonium compounds (QUATS)).

Class 8.

Packing group II.

ADR/RID-Labels 8+ENV.

Environmentally hazardous: Yes

Classification code C9. Hazard identification no. 80.

Limited quantity 1 L.
Excepted quantity E2.
Tunnel restriction code E

IMDG UN 1760.

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Quaternary

ammonium compounds (QUATS)).

Class 8.

Packing group II.
IMDG-Labels 8+ENV.
Limited quantity 1 L.
Excepted quantity E2.

EmS F-A, S-B. Marine pollutant: Yes.

IATA UN 1760.

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Proper shipping name: Corrosive liquid, n.o.s. (Quaternary

9/11

ammonium compounds (QUATS)).

Class 8.

Packing group II. IATA label 8+ENV.

Packing instruction (passenger aircraft): 851 (1 L).

Packing instruction (LQ): Y840 (0.5 L).

Packing instruction (cargo aircraft): 855 (30 L).

Inland navigation ADN UN 1760.

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Quaternary

ammonium compounds (QUATS)).

Class 8.

Packing group II.
ADN labels 8+ENV.
Classification code C9.
Limited quantity 1 L.
Excepted quantity E2.

Further Information Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

Regulatory Information Tonnage treshold (CH): 2'000 kg.

VOC(CH) = 5%

Acetic acid (CAS 64-19-7)

Switzerland - Volatile Organic

Compounds (VOCs)

Propan-2-ol (CAS 67-63-0)

Switzerland - Volatile Organic

Compounds (VOCs)
Biocidal product

2905.1290

2915.2100

CHZN4246

Active substance (s): Ampholyt 20 1.5 g/100g L-(+)-lactic acid 6 g/100g

ADBAC/BCK (C12-C16) 4 g/100g

15.2. Chemical safety

assessment

A Chemical Safety Assessment is not required.

16. Other information

Key or legend to abbreviations

and acronyms

CPID: Chemical Product IDentification / Public-product-register [CH]

CLP: Classification according to Regulation (EC) No. 1272/2008

(GHS)

MAK: Occupational exposure limit.

VOC: Volatile organic compounds (VOC) content

Key literature references and

sources for data

Information taken from reference works and the literature.

Classification procedure Calculation method.

Full text of phrases referred to

under sections 2 and 3

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour. H290: May be corrosive to metals.

H302: Harmful if swallowed. H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Training advice Provide adequate information, instruction and training for operators.

Further information See product description / Label.

Instructions for use Dosage: 50 ml per 100 l of water / reaction time: 30-35 minutes / 1 x

after bathing.

Disclaimer The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal

and release. It is not to be considered a warranty or quality

specification.