

Trade name: combiCLEAN

Substance number: SUB302020840000

Version: 4 / EU

Date revised: 24.11.2015

the date of issue: 07.03.07

Replaces Version: 3 / EU

Print date: 22.12.15

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

1.1. Product identifier

combiCLEAN

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

Use of the substance/preparation

Liquid cleanser for thermal cooking equipment with an automatic cleaning programme. For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1A H314
Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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**Signal word *****

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Potassium hydroxide; 2-Aminoethanol

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Potassium hydroxide**

CAS No. 1310-58-3

EINECS no. 215-181-3

Registration no. PRE

Concentration >= 10 < 13 %

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

Acute Tox. 4 H302

Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314 >= 2 < 5

Skin Corr. 1A H314 >= 5

Skin Irrit. 2 H315 >= 0,5 < 2

Eye Irrit. 2 H319 >= 0,5 < 2

2,2',2''-Nitrilotriethanol

CAS No. 102-71-6

EINECS no. 203-049-8

Registration no. PRE

Concentration >= 1 < 10 %

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

Eye Irrit. 2 H319

2-Aminoethanol

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CAS No.	141-43-5				
EINECS no.	205-483-3				
Registration no.	PRE				
Concentration	>=	1	<	2,9	%

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

Acute Tox. 4	H312
Acute Tox. 4	H302
Skin Corr. 1B	H314
Acute Tox. 4	H332

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3 H335 >= 5

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:
phosphonates
non-ionic surfactants

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

When spray fog inhaled, seek medical aid immediately and show the physician the packing or the packing label. Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Shield unaffected eye. Eye treatment by an Occulist.

After ingestion

Do not induce vomiting. Drink water in small gulps. Never give anything by mouth to an unconscious person. Take medical treatment.

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

The following symptoms may occur: Shortness of breath, Coughing

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

Risk of stomach perforation; Risk of respiratory disorders

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

Water spray jet, Foam, ABC powder, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

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8.2. Exposure controls

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours. Breathing apparatus in the event of aerosol or mist formation.

Hand protection

Gloves (alkali-resistant)

Appropriate Material	nitrile		
Material thickness	=	0,1	mm
Breakthrough time	>	480	min

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

Gloves (alkali-resistant)

Appropriate Material	neoprene		
Material thickness	=	0,35	mm
Breakthrough time	>	480	min

Eye protection

Tightly fitting safety glasses

Body protection

Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid, clear
Colour	red-brown
Odour	slight amine odour

pH value

Value	>	14	
Concentration/H ₂ O		100	%
Temperature		20	°C
Remarks	strongly alkaline		

Freezing point

Value	appr.	-4	to	4	°C
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Sublimation point

Remarks	not determined
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Initial boiling point and boiling range

Value	appr.	100	°C
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Flash point

Value	>	100	°C
Remarks	Not applicable		

Evaporation rate

Remarks	not determined
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Evaporation rate (ether = 1) :

Remarks	not determined
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Upper/lower flammability or explosive limits

Remarks	Not applicable
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Vapour pressure

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Remarks not determined

Vapour density

Remarks not determined

Density

Value	1,12		g/cm ³
Temperature	20	°C	

Solubility in water

Remarks Completely miscible

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks Not applicable

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

Remarks not determined

Oxidising properties

Remarks Not applicable

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

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

Reactions with acids and strong oxidising agents.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

Protect from contamination.

10.4. Conditions to avoid

Do not store at temperatures below -5 °C.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

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Product reacts with: Acids, Oxidising agents

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	2.653,49	mg/kg
	11	

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**Potassium hydroxide**

Species	rat	
LD50	=	333 mg/kg

Acute inhalational toxicity

ATE	>	100 mg/l
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Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008)

ATE	>	20 mg/l
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Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

Skin corrosion/irritation

evaluation strongly corrosive

Serious eye damage/irritation

evaluation strongly corrosive

Sensitization

evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks No data available

Mutagenicity

Remarks No data available

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

Experience in practice

The product has a strong caustic effect on the skin, eyes and mucous membranes.

Other information

Product specific toxicological data are not known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

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Reference substance	2-Aminoethanol	
CAS No.	141-43-5	
Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	390	mg/l
Duration of exposure	48	h
Source	Literature value	

Reference substance	2-Aminoethanol	
CAS No.	141-43-5	
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	150	mg/l
Duration of exposure	96	h
Source	Literature value	

Reference substance	Potassium hydroxide	
CAS No.	1310-58-3	
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	45,4	mg/l
Duration of exposure	96	h
Source	Literature value	

Fish toxicity (Components)**Potassium hydroxide**

LC50	=	80		mg/l
Duration of exposure	=	96	h	

Potassium hydroxide

Species	guppy (<i>Poecilia reticulata</i>)			
LC50	=	165		mg/l
Duration of exposure	=	24	h	

Daphnia toxicity

Reference substance	2-Aminoethanol			
CAS No.	141-43-5			
Species	Daphnia magna			
LC50	120	to	140	mg/l
Duration of exposure	24	h		
Method	OECD 202 / ISO 6341 / EEC84/449/V C2			
Source	IUCLID			

Reference substance	Potassium hydroxide		
CAS No.	1310-58-3		
Species	Ceriodaphnia spec		
LC50	40		mg/l
Duration of exposure	48	h	
Method	EPA-FIFRA		
Remarks	After neutralization no more toxicity can be observed.		
Source	OECD SIDS		

Reference substance	Propane-1,2-diol		
CAS No.	57-55-6		
Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	48	h	
Method	EPA-FIFRA		
Source	Kuehn/Birett		

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Reference substance	2,2',2''-Nitrilotriethanol	
CAS No.	102-71-6	
Species	Daphnia magna	
EC50	1850	mg/l
Duration of exposure	24	h
Method	DIN 38 412	
Source	IUCLID	

Algae toxicity

Reference substance	2-Aminoethanol	
CAS No.	141-43-5	
NOEC	0,75	to 0,97 mg/l
Duration of exposure	192	h
Source	Literature value	

Reference substance	Propane-1,2-diol	
CAS No.	57-55-6	
Species	Selenastrum capricornutum	
EC50	19000	mg/l
Duration of exposure	14	d
Source	IUCLID	

Bacteria toxicity

Reference substance	2-Aminoethanol	
CAS No.	141-43-5	
NOEC	8	mg/l
Duration of exposure	16	h
Source	Literature value	

Reference substance	2,2',2''-Nitrilotriethanol	
CAS No.	102-71-6	
Species	Pseudomonas putida	
EC10	7650	mg/l
Duration of exposure	16	h
Source	IUCLID	

Bacteria toxicity (Components)**Potassium hydroxide**

Species	Photobacterium phosphoreum	
EC50	= 22	mg/l
Duration of exposure	= 15	min

12.2. Persistence and degradability**General information**

No data available

12.3. Bioaccumulative potential**General information**

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

No data available

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12.5. Results of PBT and vPvB assessment**General information**

Not applicable

12.6. Other adverse effects**General information**

not determined

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 20 01 15* alkalines

Dispose of as hazardous waste.

Disposal recommendations for packaging

EWC waste code 20 01 39 plastics

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information**Land transport ADR/RID****14.1. UN number**

UN 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group II

Limited Quantity 1 I

Transport category 2

14.5. Environmental hazards

-

Tunnel restriction code E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.5. Environmental hazards

-

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Air transport ICAO/IATA**14.1. UN number**

UN 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

The relevant transport regulations have to be considered.

Other information**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not determined

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

less than 5 %: ***

soap, phosphonates

Water Hazard Class (Germany)

Water Hazard Class WGK 1

(Germany)

Remarks Classification according to Annex 4 VwVwS

VOC

VOC (CH) = 7,5 %

VOC (EU) = 7,5 %

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B

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Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

CAS: Chemical Abstracts Service

IMDG: International Maritime Code for Dangerous Goods

EAK: Europäischer Abfallkatalog

EINECS: European Inventory of Existing Commercial Chemical Substances

VOC: Volatile Organic Compound

INCI: International Nomenclature of Cosmetic Ingredients

MAK: Maximale Arbeitsplatz-Konzentration

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

EU: European Union

EC: European Community

IMO: International Maritime Organization

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

DNEL: Derived no effect level

DMEL: Derived minimal effect level

PNEC: Predicted no effect concentration

CEFIC: European Chemical Industry Council

UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

