

* Debosan ALW

Date revised: 28.04.2023

8750070001

Version: 2 / GB

Master No. MA-213

Print date: 17.04.2024

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

1.1. Product identifier

Trade name

Debosan ALW

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

Use of the substance/mixture

Cleaning material/ Detergent

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

Skin Corr. 1B 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****Signal word**

Danger

Hazard statements ***

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

P280.2 Wear protective gloves/ eye/ face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 *** formic acid ... %; acetic acid ... %; Sulphuric acid

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******formic acid ... %**

CAS No.	64-18-6	
EINECS no.	200-579-1	
Concentration	>= 10 < 25 %	
Skin Corr. 1A	H314	
Flam. Liq. 3	H226	
Acute Tox. 4	H302	Route of exposure: oral
Eye Dam. 1	H318	
Acute Tox. 3	H331	Route of exposure: inhalative

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

Eye Irrit. 2	H319	>= 2 < 10 %
Skin Corr. 1A	H314	>= 90 %
Skin Corr. 1B	H314	>= 10 < 90 %
Skin Irrit. 2	H315	>= 2 < 10 %
ATE	oral	730 mg/kg
ATE	inhalative, Vapors	7,85 mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

acetic acid ... %

CAS No.	64-19-7
EINECS no.	200-580-7
Registration no.	01-2119475328-30-XXXX
Concentration	>= 5 < 10 %
Flam. Liq. 3	H226
Skin Corr. 1A	H314

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

Eye Irrit. 2	H319	>= 10 < 25 %
Skin Corr. 1A	H314	>= 90 %
Skin Corr. 1B	H314	>= 25 < 90 %
Skin Irrit. 2	H315	>= 10 < 25 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

Sulphuric acid

CAS No.	7664-93-9
EINECS no.	231-639-5

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Registration no.	01-2119458838-20-XXXX			
Concentration	>=	5	<	7 %
Skin Corr. 1A	H314			
Met. Corr. 1	H290			

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

Eye Irrit. 2	H319	>= 5 < 15 %
Skin Corr. 1A	H314	>= 15 %
Skin Irrit. 2	H315	>= 5 < 15 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

potassium cumenesulphonate

CAS No.	164524-02-1			
EINECS no.	629-764-9			
Registration no.	01-2119489427-24-XXXX			
Concentration	>=	1	<	10 %
Eye Irrit. 2	H319			

sodium cumenesulphonate

CAS No.	15763-76-5			
EINECS no.	239-854-6			
Registration no.	01-2119489411-37-XXXX			
Concentration	>=	1	<	10 %
Eye Irrit. 2	H319			

Alcohols, C13-15-branched and linear, butoxylated ethoxylated

CAS No.	111905-53-4			
EINECS no.	601-137-4			
Registration no.	IRRELEVANT (POLYMER)			
Concentration	>=	1	<	2,9 %
Acute Tox. 4	H302			
Eye Irrit. 2	H319			
Aquatic Chronic 3	H412			

cATpE oral 500 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.

After ingestion

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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

There is no further relevant information available

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

There is no further relevant information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Containers in danger should be cooled with water.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide acid-resistant floor. Store product in closed containers. Do not store together with: Alkalis
Protect from heat and direct sunlight.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

acetic acid ... %

List	EH40			
Type	WEL			
Value	25	mg/m ³	10	ppm(V)
Short term exposure limit	50	mg/m ³	20	ppm(V)

acetic acid ... %

List	IOELV
Type	IOELV

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Value	25	mg/m ³	10	ppm(V)
Short term exposure limit	50	mg/m ³	20	ppm(V)

formic acid ... %

List	EH40			
Type	WEL			
Value	9.6	mg/m ³	5	ppm(V)

formic acid ... %

List	IOELV			
Type	IOELV			
Value	9	mg/m ³	5	ppm(V)

Sulphuric acid

List	EH40			
Type	OES			
Value	1	mg/m ³		

Maximum limit value; Skin resorption / sensibilisation; Pregnancy group: Status: 2003; Remarks: CHAN

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,7	mm
Breakthrough time	>	480	min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

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

Physical state	liquid
Colour	colourless
Odour	pungent
Melting point	
Remarks	not determined
Boiling point	
Remarks	not determined
Flammability	
evaluation	not determined

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Explosion limits

Remarks not determined

Flash point

Value > 100 °C

Ignition temperature

Remarks not determined

Thermal decomposition

Remarks Not relevant

pH valueValue appr. 2,00
Concentration/H₂O 1 %**Solubility in other solvents**

not determined

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

Vapour pressure

Remarks not determined

Density

Value appr. 1,11 kg/l

Vapour density

Remarks not determined

Particle characteristics

Remarks irrelevant (liquid)

9.2. Other information**Odour threshold**

Remarks No data available

Solubility in waterRemarks miscible
No information available.**SECTION 10: Stability and reactivity****10.1. Reactivity**

Product reacts with: Alkalis

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Reactions with alkalies.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

Reactions with alkalies. Reactions with metals, with evolution of hydrogen.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	3.301	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute oral toxicity (Components)

acetic acid ... %

Species	Rats (male/female)	
LD50	3310	mg/kg

formic acid ... %

Reference substance	formic acid ... %	
Species	rat	
LD50	730	mg/kg
Method	OECD 401	

Acute dermal toxicity

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

Acute inhalational toxicity

ATE	41,53	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute inhalative toxicity (Components)

formic acid ... %

Skin corrosion/irritation

evaluation	corrosive
The classification criteria are met.	

Serious eye damage/irritation

evaluation	corrosive
The classification criteria are met.	

Sensitization

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

Sensitization (Components)

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

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

Repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

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Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****acetic acid ... %**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	>	300,82	mg/l
Duration of exposure	96	h	

formic acid ... %

Reference substance	formic acid ... %		
Species	zebra fish (<i>Brachydanio rerio</i>)		
LC50		130	mg/l
Duration of exposure	96	h	
Method	OECD 203		
Test conducted with a similar formulation.			

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate		
Species	carp (<i>Cyprinus carpio</i>)		
LC50	>	100	mg/l
Duration of exposure	96	h	
Method	OECD 203		

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate		
Species	carp (<i>Cyprinus carpio</i>)		
LC50	>	100	mg/l
Duration of exposure	96	h	
Method	OECD 203		

Sulphuric acid

Reference substance	sulphuric acid ... %		
Species	sun perch		
LC50	16	to	28
Duration of exposure	96	h	mg/l

Daphnia toxicity**acetic acid ... %**

Species	Daphnia magna		
EC50	>	300,82	mg/l
Duration of exposure	48	h	

formic acid ... %

Reference substance	formic acid ... %		
Species	Daphnia magna		
EC50		365	mg/l
Duration of exposure	48	h	
Method	OECD 202		

The product has not been tested. The information is derived from products of similar composition.

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate		
Species	Daphnia magna		
EC50	>	100	mg/l
Duration of exposure	48	h	
Method	OECD 202		

sodium cumenesulphonate

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Reference substance	sodium cumenesulphonate	
Species	Daphnia magna	
EC50	> 10	mg/l
Duration of exposure	48	h
Method	OECD 202	

Sulphuric acid

Reference substance	sulphuric acid ... %	
Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48	h
Method	OECD 202	

Algae toxicity**acetic acid ... %**

Species	Skeletonema costatum	
EC50	> 300,82	mg/l
Duration of exposure	72	h

formic acid ... %

Reference substance	formic acid ... %	
Species	Selenastrum capricornutum	
EC50	1240	mg/l
Duration of exposure	72	h
Method	OECD 201	

The product has not been tested. The information is derived from products of similar composition.

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate	
Species	Desmodesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72	h

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate	
Species	Desmodesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72	h

Sulphuric acid

Reference substance	sulphuric acid ... %	
Species	Desmodesmus subspicatus	
IC50	> 100	mg/l
Duration of exposure	72	h
Method	OECD 201	

Bacteria toxicity**formic acid ... %**

Reference substance	formic acid ... %	
Species	activated sludge	
EC20	> 1000	mg/l
Duration of exposure	30	min

The product causes changes in the pH value in the test system. The result relates to the unneutralized sample.

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate	
Species	activated sludge	
EC50	> 1000	mg/l
Duration of exposure	3	h

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate	
Species	activated sludge	

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EC50	>	1000		mg/l
Duration of exposure		3	h	

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.Do not discharge product unmonitored into the environment.

Biodegradability

acetic acid ... %

evaluation readily degradable

formic acid ... %

evaluation readily degradable

potassium cumenesulphonate

Reference substance potassium cumenesulphonate

Value > 60 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301 B

sodium cumenesulphonate

Reference substance sodium cumenesulphonate

Value > 60 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301 B

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.
Highly mobile in soils

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

Behaviour in sewers [waste treatment plants]

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

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Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	3412	3412
14.2. UN proper shipping name	FORMIC ACID	FORMIC ACID
14.3. Transport hazard class(es)	8	8
14.4. Packing group	II	II
Label		
14.5. Environmental hazards	-	-
Limited Quantity	1 I	1 I
Transport category	2	
Tunnel restriction code	E	
Hazard id. no.	80	
EmS		F-A, S-B

Information for all modes of transport

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

non-ionic surfactants, phosphonates

VOC ***

VOC (EU) 24,66 %

Other information ***

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method

Hazard statements listed in Chapter 2/3

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MEL: Maximum exposure limits
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 LLC: Lowest lethal concentration
 PBT: Persistent, Bioaccumulative and Toxic

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vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

DMEL: Derived minimal effect level

PNEC: Predicted no effect concentration

PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

UN: United Nations

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

IOELV: Indicative Occupational Exposure Limit Values

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.