

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Harmony in
Chemistry

Trade name : Gruenbelag-Entferner (041140330000-0201)
Ready to use

Revision date : 19.02.2018

Version (Revision) : 15.0.0 (14.0.1)

Print date : 15.10.2018

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

1.1 Product identifier

Gruenbelag-Entferner
Ready to use

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

Relevant identified uses

Washing and cleaning products
Biocidal product

1.3 Details of the supplier of the safety data sheet

Supplier : Chemische Werke Kluthe
Werk Oberhausen

Street : Feldstraße 55

Postal code/city : D 46149 Oberhausen

Telephone : +49208 / 9948-166

Telefax : +49208 / 9948-151

Information contact : sds.ob@kluthe.com

1.4 Emergency telephone number

+49177 / 2144737 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

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

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P273 Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P501 Dispose of contents/container according to local regulations

Additional information

P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

None

2.4 Additional information

Use biocides safely. Always read the label and product information before use.

SECTION 3: Composition/information on ingredients

QUATERNARY AMMONIUM COMPOUND

3.2 Mixtures

Hazardous ingredients

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; REACH registration No. : 01-2119983287-23 ; EC No. : 270-325-2; CAS No. : 68424-85-1 (M Acute=10)

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None

Additional information

Der Inhaltsstoff mit der CAS-Nummer 63449-41-2 wurde über die CAS-Nummer 68424-85-1 notifiziert. Die CAS-Nummer 68424-85-1 ist in Anhang II der Verordnung 1451/2007/EG (ReviewVO) gelistet und zur Meldung gemäß der ChemBiozidMeldeV zu verwenden.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. Subsequently wash off with: Water and soap

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is

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conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

Dizziness Headache Impairment of vision Nausea Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder Water spray

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Use water spray jet to minimise or disperse vapours.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 National regulations see section 15.

SECTION 7: Handling and storage



7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists

Safety Data Sheet

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Measures to prevent fire

Usual measures for fire prevention. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

Environmental precautions

Shafts and sewers must be protected from entry of the product.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (VCI): 12

Storage class (TRGS 510) : 12

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls



Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : CR (polychloroprene, chloroprene rubber)

Breakthrough time : >= 480 min

Thickness of the glove material : 0,5 mm

Recommended glove articles : DIN EN 374

Additional hand protection measures : Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Body protection

lab coat Overall Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

Recommended material : Natural fibres (e.g. cotton) heat-resistant synthetic fibres

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : A-P2

General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

Safety Data Sheet

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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Safety relevant basis data

Melting point/melting range :			not determined
Initial boiling point and boiling range :	(1013 hPa)	approx.	100,0 °C
Decomposition temperature :			No data available
Flash point :			none
Ignition temperature :			none
Oxidising liquids :			Not applicable.
Lower explosion limit :			none
Upper explosion limit :			none
Explosive properties :			Not applicable.
Vapour pressure 20°C):	(20 °C)		No data available
Density :	(20 °C)	approx.	1,001 g/cm ³
Water solubility :	(20 °C)		miscible
pH-value:	(20 °C / conc.)		8,5 - 9,5
pH-value:	(20 °C / 10 g/l)		6,7 - 7,7
log P O/W :			No data available
Cinematic viscosity :	(40 °C)		No data available
Odour threshold :			No data available
Vapourisation rate :			No data available
Maximum VOC content (EC) :	(20 °C)		0,0 Wt % (Ether = 1)
Max. VOC content (Decopaint):	(20 °C)		0,0 Wt % gem. RL 2004/42/EG

9.2 Other information

no more data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

Safety Data Sheet

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



Harmony in
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11.1 Information on toxicological effects

Acute effects

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

Acute oral toxicity

Parameter : LD50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)
Exposure route : Oral
Species : Rat
Effective dose : 795 mg/kg

Acute dermal toxicity

Parameter : ATEmix calculated (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)
Exposure route : Dermal
Effective dose : > 5000 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Causes skin irritation.

Irritation to eyes

Causes serious eye irritation.

Sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

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

Germ cell mutagenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-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 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

There are no data available on the preparation/mixture itself.

11.4 Other adverse effects

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter : LC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

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Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 0,85 mg/l
Exposure time : 96 h
Method : OECD 203

Acute (short-term) daphnia toxicity

Parameter : EC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Daphnia magna (Big water flea)
Effective dose : 0,016 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) daphnia toxicity

Parameter : NOEC (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Daphnia magna (Big water flea)
Effective dose : 0,025 mg/l
Exposure time : 21 d
Method : OECD 211

Acute (short-term) algae toxicity

Parameter : EC50 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Selenastrum capricornutum
Effective dose : 0,025 mg/l
Exposure time : 72 h
Method : OECD 201

Parameter : EC10 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Selenastrum capricornutum
Effective dose : 0,0025 mg/l
Exposure time : 72 h
Method : OECD 201

Bacteria toxicity

Parameter : EC20 (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Species : Belebtschlamm
Effective dose : 5 mg/l
Exposure time : 0,5 h
Method : OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Inoculum : Degree of elimination
Effective dose : > 60 %
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301D

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

12.3 Bioaccumulative potential

Parameter : Partition coefficient n-octanol /water (log P O/W) (QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C 12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1)

Value : 2,88

12.4 Mobility in soil

Safety Data Sheet
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No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

Dispose according to legislation.

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 07 06 01*

13.2 Additional information

None

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

not relevant

14.8 Additional information

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

Safety Data Sheet

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EU legislation

according to Regulation (EC) 1907/2006

National regulations

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

No information available.

15.3 Additional information

None

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Label elements - Additional information · 03. Hazardous ingredients · 11. Acute effects · 11. Primary irritation to the skin · 11. Irritation to eyes · 11. Sensitisation · 11. Carcinogenicity · 11. Germ cell mutagenicity · 11. Reproductive toxicity · 11. STOT-single exposure · 11. STOT-repeated exposure · 11. Aspiration hazard · 12. Aquatic toxicity · 14. Transport in bulk according to Annex II of Marpol and the IBC Code · 14. Additional information - Land transport (ADR/RID) · 14. Additional information - Sea transport (IMDG) · 14. Additional information - Air transport (ICAO-TI / IATA-DGR) · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)
BCF: Bio-Concentration Factor
BOD(5): Biochemical oxygen demand (within 5 days)
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic, toxic for Reproduction
DIN: German Standards Institute / German industrial norm
DNEL: Derived No Effect Level
DOC: Dissolved organic carbon
EAK/ AVV: European waste catalogue/ waste directory-regulation
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IC50: Inhibition Concentration 50%
IMDG: International Maritime Dangerous Goods Code
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
MAK: Treshold limit values Germany
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OECD: Organization for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit

Safety Data Sheet
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STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
