

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

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

1.1 Product identifier

Substance name/trade name: **durgol® kitchen cleaner**
Unique Formula Identifier (UFI) (CH) U3VH-6060-9209-8KJ1
(EU) 53VH-S0FH-S20G-6VX9

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

Relevant identified uses: Kitchen cleaner & decalcifier foam

Uses advised against: The product (mixture) should not be used in combination with other cleaning / descaling products.

1.3 Details of the supplier of the safety data sheet

Manufacturer: düring ag
Street/PO Box: Brunnenwiesenstrasse 14
Country code/postal code/city: CH-8108 Dällikon
Contact for technical information: +41 44 847 27 47
Telephone: +41 44 847 27 47 Fax: +41 44 844 38 90 E-Mail: info@dueringag.ch
Distributor/importer (Europa): düring trade gmbh
Street/PO Box: Bösendorferstrasse 7
Country code/postal code/city: AT-1010 Wien

1.4 Emergency telephone number

National: Swiss Toxicological Information Centre, Zürich 145 or +41 44 251 51 51

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008, Annex VII:

A classification of the product (mixture) is not required due to the concentrations of the individual ingredients and the viewing of the mixture.

2.2 Label elements

Labelling elements in accordance with Regulation (EC) No. 1272/2008, Annex VII:

Due to the classification of the product (mixture) labeling elements are not required.

Hazard symbol: Not applicable Signal word: Not applicable

Hazard-determining components of labelling:

Contains: Methanesulfonic acid

Hazard warnings according to CLP/GHS Regulation (EC) No. 1272/2008 (H-phrases):

Health Hazards:

According to official regulations hazard warnings are not required.

Safety precautions according to CLP/GHS Regulation (EC) No. 1272/2008 (P-phrases):

According to official regulations safety instructions are not required.

2.3 Other hazards

No

2.4 Other notes

In addition, on the label following voluntary safety instructions with A.I.S.E. pictured symbols:

(1) Keep out of reach of children.

3. Composition/information on ingredients

3.1 Substances

Not applicable

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

3.2 Mixtures

The product is an aqueous mixture with the following hazardous ingredients.

Name of substance: **Methanesulfonic acid**

EG-No.: 200-898-6

CAS-No.: 75-75-2

Index-No.: 607-145-00-4

REACH-Reg.-No.: 01-2119491166-34

Content: < 1%

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

According to the concentration classification of Regulation (EC) No. 1272/2008, this substance does not have to be labeled.

Name of substance: **Deceth-4** (INCI)

EG-No.: Polymer

CAS-No.: 26183-52-8

Index-No.: -

REACH-Reg.-No.: -

Content: < 3%

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

According to the concentration classification of Regulation (EC) No. 1272/2008, this substance does not have to be labeled.

Name of substance: **Sodium Lauryl Sulfoacetate** (INCI)

EG-No.: 217-431-7

CAS-No.: 1847-58-1

Index-No.: -

REACH-Reg.-No.: -

Content: < 0.5% Anionic surfactant

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

According to the concentration classification of Regulation (EC) No. 1272/2008, this substance does not have to be labeled.

[The wording of not in section 2. referred hazard statements are described in section 16.]

4. First aid measures

4.1 Description of first aid measures

Remove contaminated clothing immediately. If you feel unwell, consult a doctor/medical service.

Show this data sheet or the product label.

After inhalation

If vapour or mist was inhaled, breathe fresh air. In case of irritation of the respiratory system seek medical attention.

After skin contact

Wash affected skin with soap and plenty of water.

After eye contact

Remove any contact lenses. Rinse opened eye for several minutes with plenty of water. If necessary, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water and drink plenty of water in small sips. Do not induce vomiting. In case of indisposition, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Direct contact may cause irritation of skin and mucous membranes. Toxicological effects on humans are currently unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the contact, the measures specified in Section 4.1 must be respected.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, carbon dioxide and powder

Unsuitable extinguishing media: Water spray jet

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

5.2 Special hazards arising from the substance or mixture

The product is not flammable. In the event of a fire the formation of sulfur oxides and carbon oxides can occur.

5.3 Advice for firefighters

Staying in hazard area only with protective clothing and a self-contained breathing apparatus. Cool endangered packagings and containers with sprayed water and, if possible, remove them out of the danger zone. Prevent the penetration of extinguishing water into surface water or groundwater.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Do not breathe vapour or mist. Ensure adequate ventilation. Avoid skin and eye contact.

6.2 Environmental precautions

Prevent the penetration of the product (mixture) in water, sewer and soil. Confine with sand or similar material. Collect product mechanically and fill it in marked container. Cover drains to prevent the entering of product into the sewerage, if necessary.

6.3 Methods and material for containment and cleaning up

Pump off large quantities of product. Take up residues with absorbent materials (sand, sawdust etc.), collect it in suitable containers and dispose it in accordance to official regulations. Dilute small spilled quantities (up to approx. 1 Liter) with much water and dispose it in the drains.

6.4 Reference to other sections

Observe protective measures in sections 7., 8. and 13.

7. Handling and storage

7.1 Precautions for safe handling

Do not leave containers open. Avoid contact with eyes and skin. Use only in well ventilated areas.

Measures to protect against fire and explosions

The product is not flammable and not explosive.

Measures to prevent dusts and aerosols

Use the product according to the application description and do not spray.

Measures to protect the environment

The product should not used undiluted to enter the environment.

General hygiene measures

Observe the usual precautions as when handling chemicals (At work do not eat, drink or smoke).

Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Information about storage conditions

Store product in original container tightly closed in a cool, well ventilated place. Do not store together with medicines, foods, beverages or feedstuffs. The combined packaging of the product (original packaging) with specially packaged food is allowed according to the provisions of the Food Hygiene Regulation (EC) 852/2004.

Requirements for storage rooms and containers

Recommended storage conditions: The product should be stored at temperatures between 5 °C to 30 °C.

Note: Increased temperatures, e.g. during transport, do not affect the product properties.

Storage class: Not applicable since the product does not fall within the scope of the Technical Guideline for Hazardous Substances (TRGS 510, BG RCI Leaflet M 062).

Durability: At least 3 years

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

7.3 Specific end use(s)

Kitchen cleaner foam against limescale deposits on faucets and surfaces. Additional information, please refer to the label, or our website: www.durgol.com

8. Exposure controls/personal protection

8.1 Control parameters

Name of substance: **Methanesulfonic acid**

EG-No.: 200-898-6

CAS-No.: 75-75-2

Index-No.: 607-145-00-4

Specification:

TRGS 900 - AGW (Air limit values at the work place; Status 02/02/2015)

AGW: - ml/m³ (ppm) 0.7 mg/m³

Peak limitation category: 1(I)

Remarks: Y, 11, AGS

Y = These are substances for which a risk of foetal damages under the AGW (air limit values at the work place) and BGW (biological limit values) need not be feared. 11 = Sum of vapors and aerosols.

Name of substance: **Deceth-4** (INCI)

EG-No.: Polymer

CAS-No.: 26183-52-8

Index-No.: Not present

There are no data available for this substance.

Name of substance: **Sodium Lauryl Sulfoacetate** (INCI)

EG-No.: 217-431-7

CAS-No.: 1847-58-1

Index-No.: -

There are no data available for this substance.

8.2 Exposure controls

Name of substance: **Methanesulfonic acid**

EG-No.: 200-898-6

CAS-No.: 75-75-2

Index-No.: 607-145-00-4

Für diesen Stoff sind keine Expositionsgrenzwerte (DNEL und PNEC) festgelegt und es wird nicht erwartet, dass dieser Stoff zu signifikanten Expositionen führt oder eine Gefahr für die Gesundheit darstellt.

NOAEL (No Observed Adverse Effect Level)

1'805 – 2'122 mg/kg/day Consumer, oral, based on body weight

ADI (Acceptable Daily Intake)

20 mg/kg/day Consumer, oral, based on body weight

Name of substance: **Deceth-4** (INCI)

EG-No.: Polymer

CAS-No.: 26183-52-8

Index-No.: Not present

No exposure limit values are specified for this substance. This substance possibly may contain minor amounts of ethylene oxide. It is not expected that the ethylene oxide in this substance will result in significant exposure or pose a risk to health.

Name of substance: **Sodium Lauryl Sulfoacetate** (INCI)

EG-No.: 217-431-7

CAS-No.: 1847-58-1

Index-No.: -

Für diesen Stoff sind keine Expositionsgrenzwerte (DNEL und PNEC) festgelegt und es wird nicht erwartet, dass dieser Stoff zu signifikanten Expositionen führt oder eine Gefahr für die Gesundheit darstellt.

Notes and comments:

None

8.2.1 Appropriate engineering controls

Technical measures are not required for the application of the product.

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

8.2.2 Individual protection measures, such as personal protective equipment

Eye / face protection



A special eye / face protection is not required. A direct eye contact with the product should be avoided.

Skin protection



A special skin protection is not required. A direct skin contact with the product should be avoided.

Body protection



A special protective equipment is not required.

Respiratory protection



When used as directed, a respiratory protection is not necessary.

8.2.3 Environmental exposure controls

The product should not used undiluted to enter the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	Liquid		
Farbe:	Yellow		
Odour:	Citrus		
pH-value undiluted:	< 1.5	[20°C]	DIN 19268
Acid reserve:	approx. 0.37 g NaOH/100g product		J.R. Young et al.
Rating numbers:	> -0.5 \cap > 1.0		BZ{1} \cap BZ{2}
Labelling result:	No labeling required		
Corrosion rate - Aluminum	2.57 mm/a	[55°C]	Potentiostatic
Corrosion rate - Construction steel	3.79 mm/a	[55°C]	Potentiostatic
Resulting rating:	No restrictions on air transport (Section 14.8)		
Melting Point / freezing point:	approx. 0 °C	[1013 hPa]	By Trottoli
Initial boiling point / boiling range:	approx. 100 °C		DIN 38404 C4
Flash point:	Not applicable		
Inflammability:	The product is not flammable or explosive.		
Upper flammability / explosive limit:	Not applicable		
Lower flammability / explosive limit:	Not applicable		
Vapour pressure:	110 hPa	[20°C]	Calculated
Relative density:	1.01 g/cm ³	[20°C]	ISO 2811-3
Water solubility:	The product is completely soluble and miscible.		
Dynamic viscosity:	1.60 cP	[25°C]	DIN 53221
Kinematic viscosity:	1.58 cSt	[25°C]	Calculated

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

dürring ag

VOC-Content: Not applicable

9.2 Other information

No

10. Stability and reactivity

10.1 Reactivity

Reacts with strong oxidants and bases under generation of heat. Reacts with carbonates to form carbon dioxide.

10.2 Chemical stability

Under standard ambient conditions (room temperature), the product is chemically stable.

10.3 Possibility of hazardous reactions

When used as directed no hazardous reactions are expected.

10.4 Conditions to avoid

The product should not be used in combination with other cleaning/descaling agents.

10.5 Incompatible materials

Acid-labile resins (POM), inferior stainless steel, thin/damaged chrome plating, silver and marble are attacked.

10.6 Hazardous decomposition products

Under normal conditions, hazardous decomposition products are not expected.

11. Toxicological information

11.1 Information on toxicological effects

Name of substance: **Methanesulfonic acid**

EG-No.: 200-898-6

CAS-No.: 75-75-2

Index-No.: 607-145-00-4

Acute toxicity

LD50 (oral, Rat), 200 - 800 mg/kg (IUCLID)

LD50 (dermal, Rabbit), 200 - 2000 mg/kg (IUCLID)

LD50 (dermal, Guinea pig), > 2000 mg/kg (IUCLID)

Corrosion / irritation to the skin

Skin (mouse), corrosive effect on the skin (IUCLID)

Serious eye damage / eye irritation

Eyes (rabbit), corrosive effect on the eye (IUCLID)

Sensitization of respiratory/skin

No data available

Summary of the evaluation of CMR properties.

Not classified as germ cell mutagen (mutagenic), carcinogenic or reproductive toxic.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

dürring ag

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eye

Causes severe eye irritation.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms and signs of poisoning are: burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, Nausea, vomiting. Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx. Aspiration or inhalation may cause chemical pneumonitis.

Name of substance: **Deceth-4** (INCI)

EG-No.: Polymer

CAS-No.: 26183-52-8

Index-No.: Not present

Acute toxicity

LD50 (oral, rat), > 2000 mg/kg (Manufacturer)

Corrosion / irritation to the skin

On the skin: No irritation (Manufacturer)

Serious eye damage / eye irritation

On the eye: Strong irritant with the danger of severe eye injury (Manufacturer)

Sensitization of respiratory/skin

No sensitizing effects known (Manufacturer)

Summary of the evaluation of CMR properties.

Not classified as germ cell mutagen (mutagenic), carcinogenic or reproductive toxic.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eye

Causes severe eye irritation.

Signs and Symptoms of Exposure

No data available

Name of substance: **Sodium Lauryl Sulfoacetate** (INCI)

EG-No.: 217-431-7

CAS-No.: 1847-58-1

Index-No.: -

LD50 (oral, rat), 700 mg/kg (Manufacturer)

LD50 (dermal, rabbit), > 2000 mg/kg (Manufacturer)

Corrosion / irritation to the skin

On the skin: No irritation (Manufacturer)

Serious eye damage / eye irritation

On the eye: Strong irritant with the danger of severe eye injury (Manufacturer)

Sensitization of respiratory/skin

No sensitizing effects known (Manufacturer)

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

dürring ag

Summary of the evaluation of CMR properties.

Not classified as germ cell mutagen (mutagenic), carcinogenic or reproductive toxic.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eye

Causes severe eye irritation.

Signs and Symptoms of Exposure

No data available

11.2 Other notes and information

The information specified in section 11.1 are valid only for pure substances and not for the product (mixture).

The product (mixture) does not contain any allergens subject to labeling according to Regulation (EC) No. 1223/2009 on cosmetic products (new version) in relation to Directive 2003/15 EC on cosmetic products [7. Changes to the former Cosmetics Directive 76/768/EC - Annex III, Section I] and Regulation (EC) No. 646/2004 on detergents - Annex VII, Section A.

12. Ecological information

12.1 Toxicity

Name of substance: **Methanesulfonic acid**

EG-No.: 200-898-6

CAS-No.: 75-75-2

Index-No.: 607-145-00-4

Acute toxicity to Fish

No data available

Acute toxicity to aquatic Invertebrates

Daphnia magna (Crustacea); EC50 (24h), 33 mg/l; ISO 6341 15 (IUCLID)

Daphnia pulex (Crustacea); EC50 (48h), 12 mg/l; (IUCLID)

Toxicity to Aquatic Plants e.g. Algae

No data available

Toxicity to Microorganisms e.g. Bacteria

No data available

Chronic toxicity to Fish

No data available

Chronic toxicity to aquatic Invertebrates

No data available

Name of substance: **Deceth-4** (INCI)

EG-No.: Polymer

CAS-No.: 26183-52-8

Index-No.: Not present

Acute toxicity to Fish

No data available

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

Acute toxicity to aquatic Invertebrates

No data available

Toxicity to Aquatic Plants e.g. Algae

No data available

Toxicity to Microorganisms e.g. Bacteria

No data available

Chronic toxicity to Fish

No data available

Chronic toxicity to aquatic Invertebrates

No data available

Name of substance: **Sodium Lauryl Sulfoacetate (INCI)**

EG-No.: 217-431-7

CAS-No.: 1847-58-1

Index-No.: -

Acute toxicity to Fish

Pimephales promelas (Fathead minnow); LC50 (96h); 30500 mg/l (Manufacturer)

Acute toxicity to aquatic Invertebrates

Daphnia magna (Big water flea); EC50 (48h), 5150 mg/l; (Manufacturer)

Toxicity to Aquatic Plants e.g. Algae

No data available

Toxicity to Microorganisms e.g. Bacteria

No data available

Chronic toxicity to Fish

No data available

Chronic toxicity to aquatic Invertebrates

No data available

12.2 Persistence and degradability

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

DOC-Elimination: 98.0 % OECD 302 B (28d)

Mineralization: 71.0 % th.CO₂ OECD 302 B (28d)

The product can according to the terms of the guideline OECD 302 B be described as "readily biodegradable".

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Harmful effects by lowering the pH-value are possible.

13. Disposal considerations

13.1 Waste treatment methods

According to the Waste Catalogue Ordinance 2001/118/EC (AVV) the product and product leftovers are not classified as a hazardous waste. If recycling is not possible, waste must be removed in compliance with local regulations.

Product

Waste code according to AVV: 20 01 30 Detergents other than those mentioned in 20 01 29

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

Recommendation for disposal

The correct waste code number has to be determined in accordance with the local waste disposer. For small quantities a disposal into drains is possible.

Packing

Packing material: PET-Bottles with PP spray heads
Waste code according to AVV: 15 01 02 Plastic packaging

Recommendation for disposal

Contaminated packaging: Empty, not dried out container must be disposed of as containers of harmful residues.

Cleaned packaging: Uncontaminated and cleaned packaging can be recycled.

Recommended cleaning agent

Water

Special precautions

Observe protective measures in sections 6., 7. and 8.

14. Transport information

The product (mixture) is according to ADR/RID 2021 under section 2.2.8.1.6. and especially 2.2.8.1.6.3.5 (Bridging principles) not in class 8 of corrosive substances and therefore not to be classified as dangerous goods. This also applies to IMDG/ADNR and IATA/ICAO.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

ADR/RID

Transport category: Not applicable

Tunnel restriction code: Not applicable

Hazard-No. (Kemler Zahl): Not applicable

IMDG/ADNR

EmS-Code: Not applicable

IATA/ICAO

Not applicable

14.3 Transport hazard class(es)

Hazard class: Not applicable

Classification code: Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

The product (mixture) leads into waters to a reduction of the pH-value.

Marine Pollutant: No

14.6 Special precautions for user

Observe protective measures in sections 6., 7. and 8.

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

Not applicable

14.8 Other notes and information

Limited Quantity (LQ): Not applicable

Excepted Quantity (EQ)

Maximum net quantity per inner packaging: Not applicable

Maximum net quantity per outer packaging: Not applicable

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

dürring ag

The product accomplishes the regulations of the corrosion test in accordance with the UN Manual of Tests and Criteria (Part 3, Section 37, 7th version).

UN model regulations: Not applicable

15. Regulatory information

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

EU legislation

Regulation (EC) No. 2037/2000 (Substances that deplete the ozone layer)

Not applicable

Regulation (EC) No. 850/2004 (Persistent organic pollutants)

Not applicable

Regulation (EC) No 689/2008 (Export and import of dangerous chemicals):

Not applicable

Regulation (EC) No. 648/2004 (Detergent)

The product (mixture) meets the criteria laid down in Regulation (EC) No 648/2004.

Restrictions under Title VIII of the Regulation (EC) 1907/2006

No

Restrictions according to Article 57 on substances of very high concern (SVHC):

No

National regulations

Water hazard class according AwSV, Annex 1 (Germany)

WGK: 1 weakly water polluting

Solvent regulation (31. BImSchV) (Germany)

VOC-content: Not applicable

Hazardous Incident Ordinance (12. BImSchV) (Germany)

Not applicable

Technical instructions on air quality (TA-Luft) (Germany)

Not applicable

Reference to technical rules for hazardous substances (TRGS) (Germany)

No

15.2 Chemical safety assessment

The product (mixture) was subjected to an external human-toxicological safety assessment and it was evaluated for the intended use in terms of human toxicology as safe.

16. Other information

16.1 Changes since the last version

[V.22.1] Corrections of a general nature without affecting labeling.

In Section 15.1 [Safety, health and environmental regulations/legislation specific for the substance or mixture], the water hazard class was newly determined in accordance with the Ordinance on Facilities for Handling Substances Hazardous to Water (AwSV).

Author of the material safety data sheet

Dr. H. Hopfstock, Dürring AG, Division F&E/QS, herbert.hopfstock@duerringag.ch

16.2 Literature and data sources

REACH Regulation (EC) No. 1907/2006, as last amended by Regulation (EC) No. 2015/830

CLP Regulation (EC) No. 1272/2008, as last amended by Regulation (EC) No. 286/2011

J.R. Young, M.J. How, A.P. Walker, W.M.H. Worth, Classification as Corrosive or Irritant to Skin of Preparations Containing Acidic or Alkaline Substances without Testing on Animals, Toxic. In Vitro, Bd. 2, No. 1, 1988, S. 19-26

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

Internet

<http://echa.europa.eu/>
<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
<http://chem.sis.nlm.nih.gov/chemidplus/>
<http://www.bag.admin.ch/themen/chemikalien/>
<http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index.jsp>
<http://www.reach-info.de/verordnungstext.htm>
<http://www.baua.de/de/Startseite.html>

16.3 Hazard warnings which are referred in section 2. and 3.

Accordance with the CLP Regulation (EC) No. 1272/2008

According to the concentration classification of the CLP Regulation (EC) No. 1272/2008, this substances are exempt from labeling.

16.4 Methods according to Article 9 of the Regulation (EC) No 1272/2008 of the evaluation of data for classification purposes

Classification in accordance with Regulation (EC) No 1272/2008, Annex VII (Conversion table).

16.5 Other product-related information:

The product has a significant bactericidal action in undiluted and diluted (1:1) form against *Bacillus subtilis*.

Kosher product; The product has been certified by the Rabbinate of the Israelite Religious Community Zurich (IRGZ).

16.6 Legend of abbreviations used

ADI	Acceptable Daily Intake
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AF	Overall Assessment Factor
AGS	Committee on Hazardous Substances
AGW	Occupational Exposure Limits
AVV	Wastes Ordinance
AwSV	Ordinance on Facilities for Handling Substances Hazardous to Water (Germany)
BAT	Biological workplace concentration
BGW	biological tolerance for work
BImSchV	Regulation on the implementation of the Federal Pollution Control Act (Germany)
BZ	Acid reserve rating numbers {1} and {2} for labelling classification
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (Regulation)
DFG	Senate Commission for the investigation of health hazards of substances. MAK Commission of the Deutsche Forschungsgemeinschaft (DFG)
DIN	Norms of the German Institute for Standardization
DNEL	Derived No Effect Level
DOC	Dissolved Organic Carbon
EC	Effective Concentration
EC/EEC	European Community / European Economic Community
ECHA	European Chemicals Agency
EN	Europäische Norm
EQ	Excepted Quantity (Freigestellte Menge)
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GWP	Global Warming Potential
HD-PE	High density polyethylene, thermoplastic
IARC	International Agency for Research on Cancer
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations

Material Safety Data Sheet

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

Created on: 27.05.2015
Revision date: 28.04.2022
Valid from: 28.04.2022
Version: dkr_V.22.1_en

Print date: 28.04.2022
Replaces version: dkr_V.21.1_en

düring ag

IBC-Code	International Building Code
ICAO-TI	International Civil Aviation Organization - Technical Instructions
IMDG	International Maritime Dangerous Goods
ISO	Norms of the International Standards Organization
INCI	International Nomenclature of Cosmetic Ingredients
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
LQ	Limited Quantity
MAK	Occupational Exposure Limit
MARPOL	Maritime Pollution Convention
NIOSH	National Institut of Occupational Safety & Health
NOAEL/NOAEC	No Observed Adverse Effect Level/Concentration
ODP	Ozone Depleting Potential (Ozonabbaupotential)
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative, toxic
PET	Polyethylene terephthalate, thermoplastic
PNEC	Predicted No Effect Concentration
POM	Polyoxymethylene (polyacetal) thermoplastic
REACH	Registration, Evaluation and Authorisation of Chemicals (Regulation)
RID	Rules for international carriage of dangerous goods by rail
RTECS	Registry of Toxic Effects of Chemical Substances
STEL	Short-Term Exposure Limit (Grenzwert für Kurzeitexposition)
TRGS	Technical Rules for Hazardous Substances
STOT	Specific Target Organ Toxicity
STP	Sewage Treatment Plant
SVHC	Substances of Very High Concern
TRbF	Technical Regulations of flammable liquids
UFI	Unique Formula Identifier (ECHA)
UN	United Nations
VbF	Regulations for flammable liquids (Germany)
VCI	German Chemical Industry Association
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative
VwVwS	Administrative Regulation on substances hazardous to water (Germany)
WGK	Water hazard class

This safety data sheet corresponds to Article 31 and Annex II of the REACH Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 2015/830. The above information is based on our present knowledge and describes the safety requirements of the substances or the product (mixture), however they are no assurance of product properties and do not justify a contractual legal relationship.