

Material Safety Data Sheet

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

Created on: 29.05.2020
Revision date: 29.05.2020
Valid from: 29.05.2020
Version: dct_V.20.1_en

Print date: 03.07.2020
Replaces version: n.a.

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

1.1 Product identifier

Substance name/trade name: durgol® Cleaning tablets

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

Relevant identified uses: Cleaning and degreasing tablets for espresso machines
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
International: Poison Emergency Center of the Charité - University of Medicine, Berlin
+49 30 306 867 90

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008, Annex VII:
Eye Irrit. 2, H319 / Skin Irrit. 2, H315

2.2 Label elements

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



Hazard symbol: GHS07 Signal word: Warning

Hazard-determining components of labelling:

Contains: Sodium carbonate, Citric acid, Ethoxylated fatty alcohols, Sodium percarbonate

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

Health Hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.

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

General

P102 Keep out of reach of children.

Prevention

P264 Wash hands thoroughly after handling.

Reaction

P302+P352 IF ON SKIN: Wash with plenty of soap and 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

No

3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

UFI Code: 821K-80DA-M20N-EMQ2

The product is a solid mixture with the following hazardous ingredients.

Name of substance: **Sodium carbonate**

EG-No.: 207-838-8


CAS-No. : 497-19-8

Index-No.: 011-005-00-2

REACH-Reg.-No. : 01-2119485498-19

Content: < 30%

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

 Eye Irrit. 2, H319

Name of substance: **Citric acid**

EG-No.: 201-069-1


CAS-No. : 68439-49-6

Index-No.: -

REACH-Reg.-No. : 01-2119457026-42

Content: < 20%

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

 Eye Irrit. 2, H319

Name of substance: **Alcohol, C16-18, ethoxylated 25 EO**

EG-No.: 939-518-5

CAS-No.: 68439-49-6

Index-No.: -

REACH-Reg.-No.: 01-2119977094-30

Content: < 5%

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

There are no hazardous substance classifications for this substance.

Name of substance: **Sodium percarbonate**

EG-No.: 239-707-6


CAS-No.: 15630-89-4


Index-No.: -

REACH-Reg.-No.: 01-2119457268-30

Content: < 5%

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

 Ox. Sol. 2, H272

 Eye Dam. 1, H318

 Acute Tox. 4, H302

[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 packaging.

After inhalation

When dust is 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. Consult a doctor if skin irritation persists.

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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

5.2 Special hazards arising from the substance or mixture

The product is not flammable. In the event of a fire the formation of 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

Avoid dust formation. Provide 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.

6.3 Methods and material for containment and cleaning up

Pick up the product mechanically and dispose of it properly.

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

Dust that cannot be avoided should be picked up regularly. 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.

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Measures to protect the environment

The product should not be released into the environment in large quantities.

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.

Requirements for storage rooms and containers

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

Note: At lower temperatures a reversible crystal formation can arise. Increased temperatures, e.g. during transport, do not affect the product properties.

Storage class: 13 (VCI) Non-combustible solids.

Durability: At least 3 years

7.3 Specific end use(s)

Bath decalcifier foam with beading effect against limescale deposits on fittings 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: **Sodium carbonate**

EG-No.: 207-838-8

CAS-No. : 497-19-8

Index-No.: 011-005-00-2

Specification:

TRGS 900 - AGW (occupational exposure limit values), dust inhalable

AGW:

10 mg/m³ (ppm)

Shift average 8 hours, long-term exposure

20 mg/m³ (ppm)

Short-term value 15 minutes, short-term exposure

Specification:

TRGS 900 - AGW (occupational exposure limit values), dust which occur directly into lung

AGW:

1.25 mg/m³ (ppm)

Shift average 8 hours, long-term exposure

2.4 mg/m³ (ppm)

Short-term value 15 minutes, short-term exposure

Specification:

DFG - MAK (Maximum workplace concentration), dust inhalable

MAK:

4 mg/m³ (ppm)

Shift average 8 hours, long-term exposure

Specification:

DFG - MAK (Maximum workplace concentration), dust which occur directly into lung

MAK:

0.3 mg/m³ (ppm)

Shift average 8 hours, long-term exposure

2.4 mg/m³ (ppm)

Short-term value 15 minutes, short-term exposure

Name of substance: **Citric acid**

EG-No.: 201-069-1

CAS-No. : 68439-49-6

Index-No.: -

There are no parameters to be monitored for this substance.

Name of substance: **Alcohol, C16-18, ethoxylated 25 EO**

EG-No.: 939-518-5

CAS-No.: 68439-49-6

Index-No.: -

There are no parameters to be monitored for this substance.

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Name of substance: **Sodium percarbonate**

EG-No.: 239-707-6 CAS-No.: 15630-89-4 Index-No.: -

Specification: TRGS 900 - AGW (occupational exposure limit values), dust inhalable
AGW: 10 mg/m³ (ppm) Shift average 8 hours, long-term exposure
20 mg/m³ (ppm) Short-term value 15 minutes, short-term exposure

Specification: TRGS 900 - AGW (occupational exposure limit values), dust which occur directly into lung

AGW: 1.25 mg/m³ (ppm) Shift average 8 hours, long-term exposure
2.4 mg/m³ (ppm) Short-term value 15 minutes, short-term exposure

Specification: DFG - MAK (Maximum workplace concentration), dust inhalable

MAK: 4 mg/m³ (ppm) Shift average 8 hours, long-term exposure

Specification: DFG - MAK (Maximum workplace concentration), dust which occur directly into lung

MAK: 0.3 mg/m³ (ppm) Shift average 8 hours, long-term exposure

8.2 Exposure controls

Name of substance: **Sodium carbonate**

EG-No.: 207-838-8 CAS-No.: 497-19-8 Index-No.: 011-005-00-2

DNEL (Derived No Effect Level)

10 mg/m³ Worker; chronic - local effects; inhalative

Name of substance: **Citric acid**

EG-No.: 201-069-1 CAS-No.: 68439-49-6 Index-No.: -

PNEC (Predicted No-Effect Concentration)

0.44 mg/l Freshwater
0.044 mg/l Seawater
1 mg/l Microorganisms in sewage plant
34.6 mg/kg Freshwater sediment based on dry matter
3.46 mg/kg Seawater sediment based on dry matter
33.1 mg/kg Ground based on dry matter

The values given refer to a short-term (single) exposure.

Name of substance: **Alcohol, C16-18, ethoxylated 25 EO**

EG-No.: 939-518-5 CAS-No.: 68439-49-6 Index-No.: -

No exposure limit values have been set for this substance. Small amounts of ethylene oxide may be present in this substance. The ethylene oxide in this product is not expected to cause significant exposure or pose a health hazard.

Name of substance: **Sodium percarbonate**

EG-No.: 239-707-6 CAS-No.: 15630-89-4 Index-No.: -

PNEC (Predicted No-Effect Concentration)

0.035 mg/l Freshwater
0.035 mg/l Seawater
16.24 mg/l Microorganisms in sewage plant

Notes and comments:

None

8.2.1 Appropriate engineering controls

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

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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 be used undiluted to enter the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:

Solid

Farbe:

White

Odour:

Characteristic

pH-value (10g/l):

approx. 9.6

[20°C]

DIN 19268

Melting Point / freezing point:

Not determined

Initial boiling point / boiling range:

Not applicable

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:

Not determined

Relative density:

Not determined

Water solubility:

The product is completely soluble and miscible.

Dynamic viscosity:

Not applicable

Kinematic viscosity:

Not applicable

VOC-Content:

Not applicable

9.2 Other information

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10. Stability and reactivity

10.1 Reactivity

No further relevant information available.

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

Reactions with strong acids, oxidizing and reducing agents.

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: **Sodium carbonate**

EG-No.: 207-838-8

CAS-No. : 497-19-8

Index-No.: 011-005-00-2

Acute toxicity

It is not classified as acutely toxic.

LD50 (oral, Rat), 2800 mg/kg (ECHA)

LD50 (dermal, Rabbit), > 2000 mg/kg (ECHA)

Corrosion / irritation to the skin

It is not classified as skin-corrosive / irritant.

Serious eye damage / eye irritation

Causes serious eye irritation.

Sensitization of respiratory/skin

It is not classified as an inhalation or skin allergen.

Summary of the assessment of the CMR properties.

It is not classified as a germ cell mutagen (mutagen), carcinogen or as toxic to reproduction.

Specific target organ toxicity - single exposure

It is not classified as a specific target organ-toxicant (single exposure).

Specific target organ toxicity - repeated exposure

It is not classified as a specific target organ-toxicant (repeated exposure).

Aspiration hazard

It is not classified as an aspiration hazard.

Potential health effects

Inhalation

Inhalation of dust may cause irritation to the respiratory tract.

Ingestion

No data are available.

Skin

Frequent and constant skin contact can cause skin irritation.

Eye

Causes serious eye irritation.

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Signs and Symptoms of Exposure
No data are available.

Name of substance: **Citric acid**

EG-No.: 201-069-1

CAS-No. : 68439-49-6

Index-No.: -

Acute toxicity

It is not classified as acutely toxic.

LD50 (oral, Rat), > 3000 mg/kg (TOXNET)

Corrosion / irritation to the skin

It is not classified as skin-corrosive / irritant.

Serious eye damage / eye irritation

Causes serious eye irritation.

Sensitization of respiratory/skin

It is not classified as an inhalation or skin allergen.

Summary of the assessment of the CMR properties.

It is not classified as a germ cell mutagen (mutagen), carcinogen or as toxic to reproduction.

Specific target organ toxicity - single exposure

It is not classified as a specific target organ-toxicant (single exposure).

Specific target organ toxicity - repeated exposure

It is not classified as a specific target organ-toxicant (repeated exposure).

Aspiration hazard

It is not classified as an aspiration hazard.

Potential health effects

Inhalation

Inhalation of dust may cause irritation to the respiratory tract.

Ingestion

After swallowing, gastrointestinal complaints and vomiting may occur.

Skin

Frequent and constant skin contact can cause skin irritation.

Eye

Causes serious eye irritation.

Signs and Symptoms of Exposure

No data are available.

Name of substance: **Alcohol, C16-18, ethoxylated 25 EO**

EG-No.: 939-518-5

CAS-No.: 68439-49-6

Index-No.: -

Acute toxicity

It is not classified as acutely toxic.

LD50 (oral, Rat), > 5000 mg/kg (Manufacturer information)

Corrosion / irritation to the skin

It is not classified as skin-corrosive / irritant.

Serious eye damage / eye irritation

Causes serious eye irritation.

Sensitization of respiratory/skin

It is not classified as an inhalation or skin allergen.

Summary of the assessment of the CMR properties.

It is not classified as a germ cell mutagen (mutagen), carcinogen or as toxic to reproduction.

Specific target organ toxicity - single exposure

It is not classified as a specific target organ-toxicant (single exposure).

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Specific target organ toxicity - repeated exposure

It is not classified as a specific target organ-toxicant (repeated exposure).

Aspiration hazard

It is not classified as an aspiration hazard.

Potential health effects

Inhalation

Inhalation of dust may cause irritation to the respiratory tract.

Ingestion

No data are available.

Skin

Frequent and constant skin contact can cause skin irritation.

Eye

Causes serious eye irritation.

Signs and Symptoms of Exposure

No data are available.

Name of substance: **Sodium percarbonate**

EG-No.: 239-707-6

CAS-No.: 15630-89-4

Index-No.: -

Acute toxicity

It is not classified as acutely toxic (dermal). Harmful if swallowed.

LD50 (oral, Rat), 1034 mg/kg (ECHA)

LD50 (dermal, Rabitt), > 2000 mg/kg (ECHA)

Corrosion / irritation to the skin

It is not classified as skin-corrosive / irritant.

Serious eye damage / eye irritation

Causes serious eye irritation.

Sensitization of respiratory/skin

It is not classified as a skin allergen. There is insufficient data to assess the sensitization of the respiratory tract.

Summary of the assessment of the CMR properties.

There are insufficient data to assess germ cell mutagenicity, carcinogenicity and reproductive toxicity.

Specific target organ toxicity - single exposure

There is insufficient data to assess specific target organ toxicity (single exposure).

Specific target organ toxicity - repeated exposure

There is insufficient data to assess specific target organ toxicity (repeated exposure).

Aspiration hazard

It is not classified as an aspiration hazard.

Potential health effects

Inhalation

Inhalation of dust may cause irritation to the respiratory tract.

Ingestion

No data are available.

Skin

Frequent and constant skin contact can cause skin irritation.

Eye

Causes serious eye irritation.

Signs and Symptoms of Exposure

No data are available.

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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).

12. Ecological information

12.1 Toxicity

Name of substance: **Sodium carbonate**

EG-No.: 207-838-8

CAS-No. : 497-19-8

Index-No.: 011-005-00-2

Acute toxicity to Fish

Lepomis macrochirus (Bluegill sunfish); LC50 (96h); 300 mg/l (ECHA)

Acute toxicity to aquatic Invertebrates

Daphnia magna (Great water flea); EC50 (48h), 227 mg/l; (ECHA)

Toxicity to Aquatic Plants e.g. Algae

No data available

Toxicity to Microorganisms e.g. Bacteria

No data available

Chronic toxicity to Fish

Fish; LC50 (24h); 385 mg/l (ECHA)

Fish; LOEC (5d); 250 mg/l (ECHA)

Chronic toxicity to aquatic Invertebrates

Aquatic invertebrates; EC50 (24h), 403 mg/l (ECHA)

Name of substance: **Citric acid**

EG-No.: 201-069-1

CAS-No. : 68439-49-6

Index-No.: -

Acute toxicity to Fish

Leuciscus idus (Ide); LC50 (96h); 440 mg/l (IUCLID)

Acute toxicity to aquatic Invertebrates

Daphnia magna (Great water flea); EC50 (72h), 120 mg/l; (ECHA)

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

Aquatic invertebrates; EC50 (24h), 1535 mg/l (ECHA)

Name of substance: **Alcohol, C16-18, ethoxylated 25 EO**

EG-No.: 939-518-5

CAS-No.: 68439-49-6

Index-No.: -

Acute toxicity to Fish

Leuciscus idus (Ide); LC50 (96h); >1 ∩ <10 mg/l (Manufacturer information)

Acute toxicity to aquatic Invertebrates

Daphnia magna (Great water flea); EC50 (72h), >1 ∩ <10 mg/l (Manufacturer information)

Toxicity to Aquatic Plants e.g. Algae

Algae acute effects, growth rate; EC50; >10 ∩ <100 mg/l (Manufacturer information)

Algae long-term effects, growth rate; EC10; >1 mg/l (Manufacturer information)

Toxicity to Microorganisms e.g. Bacteria

Activated sludge; EC0; >5000 mg/l (Manufacturer information)

Chronic toxicity to Fish

No data available

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Chronic toxicity to aquatic Invertebrates
No data available

Name of substance: **Sodium percarbonate**

EG-No.: 239-707-6

CAS-No.: 15630-89-4

Index-No.: -

Acute toxicity to Fish

Pimephales promelas (Fathead minnow); LC50 (48h); 70.7 mg/l (IUCLID)

Acute toxicity to aquatic Invertebrates

Daphnia pulex (Common water flea); EC50 (48h); 4.9 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

12.2 Persistence and degradability

The organic components contained in the product are "easily biodegradable" when viewed individually.

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

No harmful effects are known.

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 29 Detergents that contain dangerous substances

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: Composite packaging (plastic, aluminum)

Waste code according to AVV: 15 01 02 Plastic packaging

Recommendation for disposal

Cleaned packaging

Empty blister packs of tablets must be disposed of with household waste.

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Contaminated packaging

Uncontaminated and cleaned tablet blister packs should also be disposed of with household waste (residual waste).

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 2015, section 2.2.8.1.9. not classified in Class 8 corrosive substances and is therefore also not 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

Environmental hazards are currently unknown.

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

UN model regulations: Not applicable

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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 (EG) 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 VwVwS, Annex 4 (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 internal 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.20.1] First version

Author of the material safety data sheet

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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 (EG) No. 286/2011

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>

Material Safety Data Sheet

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

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<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

Ox. Sol. 2, H272; Oxidizing solids - Category 2; Can intensify fire; Oxidizing agent.

Acute Tox. 4, H302; Acute Toxicity; Category 4; Harmful if swallowed.

Eye Dam. 1, H318; Serious eye damage; Category 1; Causes serious eye damage.

Eye Irrit. 2, H319; Serious eye irritation; Category 2; Causes severe eye irritation.

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:

No

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
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
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

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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 Kurzzeiteexposition)
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.
