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

#### 1.1 Product identifier

Substance name/trade name: durgol Milksystem Cleaner

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

Relevant identified uses: Coffee machine milk system cleaner

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:

Street/PO Box:

Country code/postal code/city:

Contact for technical information:

düring trade gmbh
Bösendorferstrasse 7
AT-1010 Wien
+41 44 847 27 47

#### 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 Dam. 1, H318 / Skin Irrit. 2, H315

#### 2.2 Label elements

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



Hazard symbol: GHS05 Signal word: Danger

Hazard-determining components of labelling:

Contains: Lactic acid

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

Health Hazards:

H315 Causes skin irritation.

H318 Causes serious eye damage.

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

General

P102 Keep out of reach of children.

Prävention

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.

P310 Immediately call a POISON CENTER, a doctor.

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#### 2.3 Other hazards

Nο

## **Composition/information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

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

Name of substance: Lactic acid

EG-No.: 201-196-2 CAS-No.: 79-33-4 Index-No.: -

REACH-Reg.-No.: 01-2119474164-39

Content: < 25%

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

Eye Dam. 1, H318 !> Skin Irrit. 2, H315

Name of substance: **Triethylene glycol** [2,2'-(ethylenedioxy)diethanol]

EG-No.: 203-953-2 CAS-No.: 112-27-6 Index-No.: -

REACH-Reg.-No.: 01-2119438366-35

Content: < 5%

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

This substance is not classified according to (EC) No 1272/2008.

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

EG-No.: Polymer CAS-No.: 26183-52-8 Index-No.: Not present

REACH-Reg.-No.: Not present

Content: < 3%

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



Eye Dam. 1, H318 **!** Acute Tox. 4, H302

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

## 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.

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#### 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. Upon contact with metals may evolve hydrogen gas (Risk of explosion).

## 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.

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

Storage class: 8 (VCI) Caustic and corrosive substances.

Durability: At least 3 years

#### 7.3 Specific end use(s)

Liquid cleaning concentrate for milk systems. For additional information, please refer to the label or our homepage at: www.durgol.com

# 8. Exposure controls/personal protection

#### 8.1 Control parameters

Name of substance: Lactic acid

EG-No.: 201-196-2 CAS-No.: 79-33-4 Index-No.: -

There are no limit values for this substance.

Name of substance: **Triethylene glycol** [2,2'-(ethylenedioxy)diethanol] EG-No.: 203-953-2 CAS-No.: 112-27-6 Index-No.: -

Specification: TRGS 900 - AGW (Air limit values at the work place; Status

02/02/2015)

AGW: - ml/m<sup>3</sup> (ppm) 1000 E mg/m<sup>3</sup>

Peak limitation category: 2(II)
Remarks: DFG, Y, 11

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 steam and aerosols.

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

EG-No.: Polymer CAS-No.: 26183-52-8 Index-No.: Not present

There are no limit values for this substance.

## 8.2 Exposure controls

Name of substance: Lactic acid

EG-No.: 201-196-2 CAS-No.: 79-33-4 Index-No.: -

DNEL-values: 592 mg/m<sup>3</sup> Workers, short-term exposure, inhalation 296 mg/m<sup>3</sup> Population, short-term exposure, inhalation

Notes and comments:

No

Name of substance: **Triethylene glycol** [2,2'-(ethylenedioxy)diethanol] EG-No.: **203-953-2** CAS-No.: **112-27-6** Index-No.: -

DNEL-values: 50 mg/m<sup>3</sup> Workers, long-term exposure, inhalation

40 mg/kg bw/day Workers, long-term exposure, dermal
25 mg/m³ Population, long-term exposure, inhalation
20 mg/kg bw/day Population, long-term exposure, dermal

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PNEC-values: 10 Freshwater mg/l mg/l Seawater 1 10 mg/l Water (intermittent release) Sediment (fresh water, seawater) 46 mg/kg dw 3.32 mg/kg dw 10 mg/l Sewage treatment plants

Notes and comments:

No

Name of substance: Deceth-4 (INCI)

EG-No.: Polymer CAS-No.: 26183-52-8 Index-No.: Not present

Other limits There are no data available for this substance.

Notes and comments:

No

#### 8.2.1 Appropriate engineering controls

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

## 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: Colorless
Odour: Characteristic

pH-value undiluted: <1.0 [20°C] DIN 19268

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Acid reserve: approx. 6.05 g NaOH/100g product J.R. Young et al.

Rating numbers:  $> -0.5 \cap < 1.0$  BZ{1}  $\cap$  BZ{2}

Labelling result: GHS07, Warning

Rate of corrosion - Aluminum 0.17 mm/a [55°C] potentiostatic Rate of corrosion - Structural steel 2.20 mm/a [55°C] potentiostatic ٥С Melting Point / freezing point: [1013 hPa] By Trottoli approx. 0 °C Initial boiling point / boiling range: approx. 100 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

hPa Vapour pressure: 110 [20°C] Calculated g/cm<sup>3</sup> Relative density: 1.06 [20°C] ISO 2811-3 Water solubility: The product is completely soluble and miscible. сΡ Dynamic viscosity: 4.80 [25°C] DIN 53221 Kinematic viscosity: 4.51 cSt [25°C] Calculated

VOC-Content: Not applicable

#### 9.2 Other information

Nο

## 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: Lactic acid

EG-No.: 201-196-2 CAS-No.: 79-33-4 Index-No.: -

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Acute toxicity

LD50 (oral, rat), 3730 mg/kg (IUCLID)

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

LC50 (inhalation (4h) aerosol, rat), 7.94 mg/l (IUCLID)

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Corrosion / irritation to the skin

Skin (rabbit), irritation of the skin, irritating.

Serious eye damage / eye irritation

Eyes (rabbit) Eye irritation, severe eye irritation, risk of serious damage to eyes.

Sensitization of respiratory/skin

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

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: Triethylene glycol [2,2'-(ethylenedioxy)diethanol]

EG-No.: 203-953-2 CAS-No.: 112-27-6 Index-No.: -

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Acute toxicity

LD50 (oral, rat), > 5000 mg/kg (IUCLID)

Corrosion / irritation to the skin

Not irritating to the skin.

Serious eye damage / eye irritation

Not irritating to the eye.

Sensitization of respiratory/skin

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

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Aspiration hazard

#### No data available

Potential health effects

Inhalation

May be harmful if inhaled.

Ingestion

May be harmful if swallowed.

Skir

May be harmful if absorbed through skin.

Eye

May cause damage in prolonged contact with the eyes.

Signs and Symptoms of Exposure

No data available

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)

Germ cell mutagenicity:

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

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.

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Eve

Causes severe eye irritation.

Signs and Symptoms of Exposure

No data available

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#### 11.2 Sonstige Hinweise und Informationen

RTECS: no data available

Die in Abschnitt 11.1 angegebenen Informationen sind für die reinen Stoffe und nicht für das Produkt (Gemisch) gültig.

#### 11.2 Other notes and information

RTECS: No data available

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: Lactic acid

EG-No.: 201-196-2 CAS-No.: 79-33-4 Index-No.: -

Acute toxicity to Fish

Brachydanio rerio (Zebrafish); LC50 (96h); 320 mg/l (IUCLID)

Acute toxicity to aquatic Invertebrates

Daphnia magna (Crustacea); EC50 (48h), 130 mg/l; (IUCLID)

Toxicity to Aquatic Plants e.g. Algae

Pseudokirchneriella subcapitata (Green algae); ErC50 (72h); 2800 mg/l (IUCLID)

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: **Triethylene glycol** [2,2'-(ethylenedioxy)diethanol] EG-No.: **203-953-2** CAS-No.: **112-27-6** Index-No.: **-**

Acute toxicity to Fish

Lepomis macrochirus (Bluegill); LC50 (96h), 10000 mg/l (IUCLID)

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: **Deceth-4** (INCI)

EG-No.: Polymer CAS-No.: 26183-52-8 Index-No.: Not present

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Acute toxicity to Fish No data available

Acute toxicity to aquatic Invertebrates

No data available

Toxicity to Aquatic Plants e.g. Algae

No data available

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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 biodegradability of this product has no relevance, because the theoretical degradable organic content is below 0.1%.

#### 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

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: HDPE - Bottles, Lid and Dosing cap

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.

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## 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

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

The product accomplishes the regulations of the corrosion test in accordance with the UN Manual of Tests and Criteria (Part 3, Section 37, 5th 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

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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

National regulations

Water hazard class according VwVwS, Annex 4 (Germany)

WGK: 1 weakly water polluting

Solvent regulation (31. BlmSchV) (Germany)

VOC-content: Not applicable

Hazardous Incident Ordinance (12. BlmSchV) (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.18.1] Corrections of a general nature without affecting labeling. Section 8.1 [Control parameters] and 8.2 [Exposure controls] has been expanded and remarks added.

Author of the material safety data sheet

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

## 16.2 Literature and data sources

REACH Regulation (EC) No. 1907/2006, as last amended by Regulation (EC) No. 301/2014 CLP Regulation (EC) No. 1272/2008, as last amended by Regulation (EG) No. 286/20011

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

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

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

Skin Irrit. 2, H315; Corrosivity/irritation of the skin; Category 2; Causes skin irritation.

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

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according to Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No. 453/2010

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# 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

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

BlmSchV 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 Conzentration

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 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

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according to Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No. 453/2010

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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 Kurzzeitexposition)

TRGS Technical Rules for Hazardous Substances

STOT Specific Target Organ Toxicity
STP Sewage Treatment Plant

TRbF Technical Regulations of flammable liquids

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. 453/2010. 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.

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