



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2020/878)

durgol® Universal Fast-Descaler

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

1.1. Product identifier

Product name	durgol® Universal Fast-Descaler
Product code	70015
Unique formula identifier (UFI)	U02J-Q02W-W20N-UF4R

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

Use of the Substance/Mixture	Descaling agent
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	düring AG Langwiesenstrasse 1 CH-8108 Dällikon Telefon +41 44 847 27 49 www.duringag.ch www.durgol.com
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	Distributor/Importer (EU): düring trade GmbH Bösendorferstrasse 7 AT-1010 Wien
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1.4. Emergency telephone number	145 (Tox Info Suisse)
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Revision date	10.10.2023
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Version	1
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Cat. 1C, H314
Serious eye damage/eye irritation, Cat. 1, H318

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Danger

Hazard Statements

H314: Causes severe skin burns and eye damage.

Precautionary statements

P102: Keep out of reach of children.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.

Supplemental information

None.

Product identifier

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid, CAS-No. 79-33-4, EC-No. 201-196-2
Methanesulphonic acid, CAS-No. 75-75-2, EC-No. 200-898-6

Packaging

Tactile warning of danger (EN/ISO 11683).

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid	<15%	Skin Corr. 1C H314, Eye Dam. 1 H318, EUH071	CAS-No.: 79-33-4 EC-No.: 201-196-2 Index-No: 607-743-00-5
Methanesulphonic acid	<5%	Skin Corr. 1B H314	CAS-No.: 75-75-2 EC-No.: 200-898-6 Index-No: 607-145-00-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Not hazardous by inhalation.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

4.2. Most important symptoms and effects, both acute and delayed	Causes severe burns. Superficial burning sensation. Blurred vision.
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4.3. Indication of any immediate medical attention and special treatment needed	None known.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
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Unsuitable extinguishing media	High volume water jet.
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5.2. Special hazards arising from the substance or mixture	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus.
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Specific methods	No special measures required.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid contact with skin and eyes.

For emergency responders No special measures required.

6.2. Environmental precautions Contain spillage, and then collect with non-combustible absorbent material, (e.g. universal binder, sand, diatomaceous earth, vermiculite).

6.3. Methods and material for containment and cleaning up Soak up with inert absorbent material. Keep in suitable and closed containers for disposal (Plastic container of HDPE). Neutralise with base.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Plan first aid action before beginning work with this product.

7.2. Conditions for safe storage, including any incompatibilities Store in a place accessible by authorized persons only. Keep container tightly closed. Store in original container.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

Methanesulphonic acid (CAS 75-75-2)

Germany - TRGS 900 -
Occupational Exposure Limits -
TWAs (AGWs) 0.7 mg/m³ TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed sum of vapor and aerosol, exposure factor 1)

8.2. Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing.

Personal protection equipment

Respiratory protection No special protective equipment required.

Hand protection No special measures required.

<i>Eye protection</i>	No special measures required.
<i>Skin and body protection</i>	No special measures required.
<i>Thermal hazards</i>	No special measures required.
Environmental exposure controls	Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Characteristic.
Melting point/ freezing point:	0 °C - 100 °C
Boiling point or initial boiling point / range:	100 °C
Flammability:	Not determined.
Lower and upper explosion limit:	Not determined.
Flash point:	Not determined.
Auto-ignition temperature:	None.
Decomposition temperature:	Not determined.
pH:	<1
Kinematic viscosity:	Not determined.
Solubility:	completely soluble (Water)
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	1.05
Relative vapour density:	Not determined.
Particle characteristics:	Not applicable.

9.2. Other information

9.2.1 Information with regard to physical hazard classes	No information available.
9.2.2 Other safety characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	Incompatible with strong bases and oxidizing agents.

10.6. Hazardous decomposition products None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (CAS 79-33-4) Dermal LD50 Rabbit > 2000 mg/kg (NICNAS) Inhalation LC50 Rat > 7.94 mg/L 4 h(ECHA_API) Oral LD50 Rat = 3730 mg/kg (IUCLID) Methanesulphonic acid (CAS 75-75-2) Dermal LD50 Rabbit > 1000 mg/kg (ECHA_API) Inhalation LC50 Rat = 330 ppm 6 h(NLM_HSDB) Oral LD50 Rat = 380 mg/kg (NZ_CCID)
Skin corrosion/irritation	Causes severe burns.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory / Skin Sensitisation	None.
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.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data available.

11.2. Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics	Causes severe burns.
Endocrine disrupting properties	No data available.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity May change pH of waters.

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (CAS 79-33-4)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Brachydanio rerio 320 mg/L [semi-static] (IUCLID) LC50 96 h Lepomis macrochirus 100 - 180 mg/L [static] (EPA) LC50 96 h Oncorhynchus mykiss 100 - 180 mg/L [static] (EPA)
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia magna 240 mg/L (IUCLID) EC50 48 h Daphnia magna 180 - 320 mg/L [Static] (EPA)

Methanesulphonic acid (CAS 75-75-2)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Oncorhynchus mykiss 73 mg/L [static] (ECHA)
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h Daphnia pulex 12 mg/L (IUCLID)

12.2. Persistence and degradability	Neutralization is normally necessary before waste water is discharged into water treatment plants.
12.3. Bioaccumulative potential	Bioaccumulation is unlikely.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Endocrine disrupting properties	No information available.
12.7. Other adverse effects	No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues / unused products	No information available.
Contaminated packaging	No information available.

SECTION 14: Transport information

14.1. UN number or ID number	Not applicable.
14.2. UN proper shipping name	Not applicable.
14.3. Transport hazard class(es)	Not applicable.
14.4. Packing group	Not applicable.
14.5. Environmental hazards	Not applicable.
14.6. Special precautions for user	Not applicable.

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

UN Model Regulations

ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

Further Information None.

SECTION 15: Regulatory information

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

Regulatory Information None.

L-(+)-lactic acid; (2S)-2-hydroxypropanoic acid (CAS 79-33-4)

Switzerland - Biocides - Annex II - 95.5 w/w% Sunset Date: 06/30/2027 (new active substance)

Active Substances - Minimum >=955 g/kg Sunset Date: 04/30/2029 (dry weight)

Purity

Switzerland - Biocides - Annex II -

Active Substances - Product Type

Product Type: 1

Product Type: 2

Product Type: 3

Product Type: 4

EU - Biocides (1062/2014) - Annex

II Part 1 - Supported Substances

EU - Biocides (2007/565/EC) -

Substances and Product-Types Not

to Be Included in Annexes I, IA and

IB to Directive 98/8/EC

EU - Biocides (528/2012/EU) -

Active Substances

071 Product type 6 (201-196-2)

Product type: 20

1 - Human hygiene (Commission Implementing Regulation 2016/2291/EU, listed under also Lactic acid based products - CID LINES NV)

2 - Disinfectants and algacides not intended for direct application to humans or animals (Commission Implementing Regulation 2017/2002/EU

Commission Implementing Regulation 2022/2108/EU

Commission Implementing Regulation 2023/1458/EU, listed under also Lactic acid based products - CID LINES NV

Ecolab UA Lactic acid single product dossier

Colgate-Palmolive Lactic acid PT 2

biocidal product family SALVECO SALVESAFE PRODUCTS)

3 - Veterinary hygiene (Commission Implementing Regulation 2023/1311/EU

Commission Implementing Regulation 2023/1458/EU

Commission Implementing Regulation 2023/1763/EU, listed under also Lactic acid based products - CID LINES NV

biocidal product family Lactic acid Family

biocidal product family SALVECO SALVESAFE PRODUCTS)

4 - Food and feed area disinfectant (Commission Implementing Regulation 2023/1311/EU

Commission Implementing Regulation 2023/1458/EU, listed under also Lactic acid based products - CID LINES NV

biocidal product family SALVECO SALVESAFE PRODUCTS)

EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 75.
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([201-196-2])
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 4952, hazard class 1 - slightly hazardous to water
Methanesulphonic acid (CAS 75-75-2)	
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 75.
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 2144, hazard class 1 - slightly hazardous to water
15.2. Chemical safety assessment	Not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms	None.
Full text of phrases referred to under sections 2 and 3	EUH071: Corrosive to the respiratory tract. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
Further information	Take notice of the directions of use on the label.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.