



## SAFETY DATA SHEET

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

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### **durgol® swiss steamer**

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

##### **1.1. Product identifier**

<b>Product name</b>	durgol® swiss steamer
<b>Synonyms</b>	70006
<b>Product code</b>	None.
<b>Unique formula identifier (UFI)</b>	Q9TH-40Y6-C203-AQPX

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

<b>Use of the Substance/Mixture</b>	No information available.
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##### **1.3. Details of the supplier of the safety data sheet**

<b>Company/Undertaking Identification</b>	düring AG Langwiesenstrasse 1 CH-8108 Dällikon Telefon +41 44 847 27 49 <a href="http://www.dueringag.ch">www.dueringag.ch</a> <a href="http://www.durgol.com">www.durgol.com</a>
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Distributor/Importer (EU):  
düring trade GmbH  
Bösendorferstrasse 7  
AT-1010 Wien

<b>1.4. Emergency telephone number</b>	145 (Tox Info Suisse)
<b>Revision date</b>	06.10.2023
<b>Version</b>	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. 2, H315  
Serious eye damage/eye irritation, Cat. 2, H319

**Additional information**

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

### 2.2. Label elements



**Signal Word**

Warning

**Hazard Statements**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.

**Precautionary statements**

P102: Keep out of reach of children.  
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.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**Supplemental information**

None.

**Product identifier**

Not required.

### 2.3. Other hazards

None known.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
Phosphoric acid, Orthophosphoric acid	<25%	Skin Corr. 1B H314 [Skin Corr. 1B H314: C ≥ 25 %   Skin Irrit. 2 H315: 10 % ≤ C < 25 %   Eye Irrit. 2 H319: 10 % ≤ C < 25 %]	CAS-No.: 7664-38-2 EC-No.: 231-633-2 Index-No: 015-011-00-6
Hydrochloric acid	<5%	Skin Corr. 1B H314, STOT SE 3 H335 [Skin Corr. 1B H314: C ≥ 25 %   Skin Irrit. 2 H315: 10 % ≤ C < 25 %   Eye Irrit. 2 H319: 10 % ≤ C < 25 %   STOT SE 3 H335: C ≥ 10 %]	CAS-No.: 7647-01-0 EC-No.: 231-595-7 Index-No: 017-002-01-X

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

**Hazardous impurities**

None known.

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours or decomposition products.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Consult a physician if necessary.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Erythema. Superficial burning sensation. Blurred vision.
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<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	None known.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet.

<b>5.2. Special hazards arising from the substance or mixture</b>	The product is not flammable. Hydrogen gas may be formed on contact with metals (risk of explosion).
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### **5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus.
<b>Specific methods</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.
<b>For emergency responders</b>	Use personal protective equipment. Do not breathe vapours/dust. Immediately evacuate personnel to safe areas. Ventilate the area.

<b>6.2. Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Contain spillage, and then collect with non-combustible absorbent material, (e.g. universal binder, sand, diatomaceous earth, vermiculite).
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<b>6.3. Methods and material for containment and cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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<b>6.4. Reference to other sections</b>	See chapter 8 and 13.
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## **SECTION 7: Handling and storage**

<b>7.1. Precautions for safe handling</b>	Plan first aid action before beginning work with this product. Avoid contact with skin and eyes.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in a place accessible by authorized persons only. Keep container tightly closed. Store in original container.
<b>7.3. Specific end use(s)</b>	Special descaler for high-quality steamers/steamers of all brands. Additional information please refer to the label or our homepage at: <a href="http://www.durgol.com">www.durgol.com</a>

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## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

<b>Exposure limit(s)</b>	No data is available on the product itself.
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#### **Phosphoric acid, Orthophosphoric acid (CAS 7664-38-2)**

Switzerland - Occupational Exposure Limits - Developmental Risk Groups	Developmental Risk Group C
Switzerland - Occupational Exposure Limits - STELs - (KZGWs)	4 mg/m3 STEL [KZGW] (inhalable dust)
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	2 mg/m3 TWA [MAK] (inhalable dust)
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	2 mg/m3 STEL
EU - Occupational Exposure	1 mg/m3 TWA

(2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs

Austria - Occupational Exposure Limits - STELs - (MAK-KZGWs) 2 mg/m3 STEL [KZGW] (4 X 15 min)

Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs) 1 mg/m3 TWA [TMW]

Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations) 4 mg/m3 Peak (inhalable fraction)

Germany - DFG - Recommended Exposure Limits - Pregnancy no risk to embryo/fetus if exposure limits adhered to

Germany - DFG - Recommended Exposure Limits - TWAs (MAKs) 2 mg/m3 TWA MAK (inhalable fraction)

Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs) 2 mg/m3 TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)

### **Hydrochloric acid (CAS 7647-01-0)**

Switzerland - Occupational Exposure Limits - Developmental Risk Groups Developmental Risk Group C

Switzerland - Occupational Exposure Limits - STELs - (KZGWs) 4 ppm STEL [KZGW]  
6 mg/m3 STEL [KZGW]

Switzerland - Occupational Exposure Limits - TWAs - (MAKs) 2 ppm TWA [MAK]  
3 mg/m3 TWA [MAK]

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs 10 ppm STEL  
15 mg/m3 STEL

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs 5 ppm TWA  
8 mg/m3 TWA

Austria - Occupational Exposure Limits - STELs - (MAK-KZGWs) 10 ppm STEL [KZGW] (8 X 5 min)  
15 mg/m3 STEL [KZGW] (8 X 5 min)

Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs) 5 ppm TWA [TMW]  
8 mg/m3 TWA [TMW]

Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations) 4 ppm Peak  
6 mg/m3 Peak

Germany - DFG - Recommended Exposure Limits - Pregnancy no risk to embryo/fetus if exposure limits adhered to

Germany - DFG - Recommended Exposure Limits - TWAs (MAKs) 2 ppm TWA MAK  
3.0 mg/m3 TWA MAK

Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs) 2 ppm TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)

3 mg/m3 TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)

## **8.2. Exposure controls**

**Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice.

## Personal protection equipment

<i>Respiratory protection</i>	No personal respiratory protective equipment normally required.
<i>Hand protection</i>	No special measures required.
<i>Eye protection</i>	Normally no eye protection necessary. Avoid contact with eyes.
<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.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Melting point/ freezing point:</b>	0 °C - 100 °C
<b>Boiling point or initial boiling point / range:</b>	100 °C
<b>Flammability:</b>	Not determined.
<b>Lower and upper explosion limit:</b>	Not determined.
<b>Flash point:</b>	Not determined.
<b>Auto-ignition temperature:</b>	None.
<b>Decomposition temperature:</b>	Not determined.
<b>pH:</b>	<1
<b>Kinematic viscosity:</b>	Not determined.
<b>Solubility:</b>	completely soluble (Water)
<b>Partition coefficient n-octanol/water (log value):</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density:</b>	1.12
<b>Relative vapour density:</b>	Not determined.
<b>Particle characteristics:</b>	Not applicable.

### 9.2. Other information

<b>9.2.1 Information with regard to physical hazard classes</b>	Acid Reserve by Young et. al ca. 8.9 g NaOH/100g Produkt
<b>9.2.2 Other safety characteristics</b>	No information available.

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	No information available.
<b>10.2. Chemical stability</b>	No decomposition if used as directed.
<b>10.3. Possibility of hazardous reactions</b>	Exothermic reaction with strong bases.

<b>10.4. Conditions to avoid</b>	Exothermic reaction with strong bases.
<b>10.5. Incompatible materials</b>	None.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

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## **SECTION 11: Toxicological information**

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

<b>Acute toxicity</b>	<b>Phosphoric acid, Orthophosphoric acid (CAS 7664-38-2)</b> Dermal LD50 Rabbit = 2740 mg/kg (JAPAN_GHS) Inhalation LC50 Rat > 850 mg/m <sup>3</sup> 1 h(NLM_CIP) Oral LD50 Rat = 1530 mg/kg (JAPAN_GHS) <b>Hydrochloric acid (CAS 7647-01-0)</b> Dermal LD50 Rabbit > 5010 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 1.68 mg/L 1 h(JAPAN_GHS) Oral LD50 Rat 238 - 277 mg/kg (JAPAN_GHS)
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory / Skin Sensitisation</b>	None.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity (single exposure)</b>	No data available.
<b>Specific target organ toxicity (repeated exposure)</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	No data available.

### **11.2. Information on other hazards**

<b>Endocrine disrupting properties</b>	No data available.
<b>Other information</b>	No data available.

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## **SECTION 12: Ecological information**

<b>12.1. Toxicity</b>	No data available.
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<b>12.2. Persistence and degradability</b>	Neutralization is normally necessary before waste water is discharged into water treatment plants.
<b>12.3. Bioaccumulative potential</b>	Bioaccumulation is unlikely.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	No information available.
<b>12.6. Endocrine disrupting properties</b>	No information available.
<b>12.7. Other adverse effects</b>	No information available.

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## ***SECTION 13: Disposal considerations***

### **13.1. Waste treatment methods**

<b>Waste from residues / unused products</b>	No information available.
<b>Contaminated packaging</b>	Clean drums may be recycled.

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## ***SECTION 14: Transport information***

<b>14.1. UN number or ID number</b>	Not applicable.
<b>14.2. UN proper shipping name</b>	Not applicable.
<b>14.3. Transport hazard class(es)</b>	Not applicable.
<b>14.4. Packing group</b>	Not applicable.
<b>14.5. Environmental hazards</b>	Not applicable.
<b>14.6. Special precautions for user</b>	Not applicable.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>UN Model Regulations</b>	
<b>ADR/RID</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IATA</b>	Not regulated.



**Further Information**

None.

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulatory Information**

None.

**Phosphoric acid, Orthophosphoric acid (CAS 7664-38-2)**

Switzerland - Water Protection

B

Ordinance - Water Polluting Liquids  
ClassificationEU - Biocides (2007/565/EC) -  
Substances and Product-Types Not  
to Be Included in Annexes I, IA and  
IB to Directive 98/8/EC

Product type: 4

EU - REACH (1907/2006) - Annex  
XVII - Restrictions on Certain  
Dangerous Substances

Use restricted. See item 75. (B)

EU - REACH (1907/2006) - List of  
Registered Intermediates

Present ([231-633-2])

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. 392, hazard class 1 - slightly hazardous to water

**Hydrochloric acid (CAS 7647-01-0)**Switzerland - Biocides - Annex II -  
Active Substances - Minimum  
Purity

999 g/kg Sunset Date: 04/30/2024

Switzerland - Biocides - Annex II -  
Active Substances - Product Type

Product Type: 2

Switzerland - Water Protection

B

Ordinance - Water Polluting Liquids  
ClassificationEU - Seveso III Directive  
(2012/18/EU) - Qualifying  
Quantities of Dangerous  
Substances - Higher-Tier  
Requirements

250 tonne (liquefied gas)

EU - Seveso III Directive  
(2012/18/EU) - Qualifying  
Quantities of Dangerous  
Substances - Lower-Tier  
Requirements

25 tonne (liquefied gas)

EU - Narcotics (111/2005) -  
Implementing Export Requirements  
- Scheduled Substances

Category 3 Substance ([2806 10 00])

EU - Narcotics (2015/1011) -  
Implementing Export Requirements  
- Annual Maximum Export  
Quantities for Exemption

100 kg

EU - Narcotics (273/2004) - Drug  
Precursors - Annex I - Scheduled  
Substances

Category 3 Substance ([2806 10 00])

EU - Biocides (528/2012/EU) -  
Active Substances2 - Disinfectants and algaecides not intended for direct application  
to humans or animals (Commission Directive 2012/16/EU)

EU - Biocides (98/8/EC) - Annex I - Active Substances - Expiry Dates	Expiration date: April 30, 2024 Product type 2 (listed under EC Number 231-595-7)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Minimum Purity	999 g/kg 2 (listed under EC Number 231-595-7)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Product Type	Product type 2 (listed under EC Number 231-595-7)
EU - Biocides (98/8/EC) - Annex I - Active Substances - Specific Provisions	Member States shall assess, where relevant for the particular product, those uses or exposure scenarios and those risks to human populations and to environmental compartments that have not been representatively addressed in the Union level risk assessment. Member States shall ensure that authorisations of products for non-professional use are subject to the packaging being designed to minimize user exposure, unless it can be demonstrated in the application for product authorisation that risks for human health can be reduced to acceptable levels by other means (listed under EC Number 231-595-7)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 75. (U, 5)
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([231-595-7])
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. 238, hazard class 1 - slightly hazardous to water (footnote 1)
UN (United Nations) - Convention on Illicit Traffic in Narcotics & Psychotropics - Table II Substances	Present (listed under HS Code: 2806.10)
<b>15.2. Chemical safety assessment</b>	Not required.

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## SECTION 16: Other information

<b>Key or legend to abbreviations and acronyms</b>	None.
<b>Full text of phrases referred to under sections 2 and 3</b>	H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
<b>Further information</b>	Take notice of the directions of use on the label.
<b>Disclaimer</b>	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.

