



SAFETY DATA SHEET

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

HYGEA Descaling

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

1.1. Product identifier

Product name	HYGEA Descaling
Product code	70014-29
Unique formula identifier (UFI)	UE1J-5084-S206-7229

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

Use of the Substance/Mixture	Special descaler for all steam ironing systems and steam cleaners.
Uses advised against	The product (mixture) should not be used in combination with other cleaning/descaling agents.

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
	Distributor/importer: USPA Europe S.r.l. C.so della Vittoria, 14 IT-28100 Novara Telephone: +39 0321 030449 Fax: +39 0321 031648

1.4. Emergency telephone number	Swiss Tox - 145 or +41 44 251 51 51
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Version	3
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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

No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components	Weight %	CLP Classification	Product identifier
Phosphoric acid, Orthophosphoric acid	< 20%	Skin Corr. 1B H314 [Skin Corr. 1B H314: $C \geq 25\%$ Skin Irrit. 2 H315: $10\% \leq C < 25\%$ Eye Irrit. 2 H319: $10\% \leq C < 25\%$]	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: $C \geq 25\%$ Skin Irrit. 2 H315: $10\% \leq C < 25\%$ Eye Irrit. 2 H319: $10\% \leq C < 25\%$ STOT SE 3 H335: $C \geq 10\%$]	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.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Consult a physician for severe cases.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
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. Do not induce vomiting. Consult a physician for severe cases.

4.2. Most important symptoms and effects, both acute and delayed The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

Unsuitable extinguishing media High volume water jet.

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. Hydrogen gas may be formed on contact with metals (risk of explosion).

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.

Specific methods No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.
For emergency responders	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Plan first aid action before beginning work with this product. Do not breathe vapours/dust. Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. 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.

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] NIOSH OSHA (inhalable dust)
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	2 mg/m3 TWA [MAK] NIOSH OSHA (inhalable dust)
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	2 mg/m3 STEL
EU - Occupational Exposure (2000/39/EC) - First List of	1 mg/m3 TWA

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 I(2) (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, 2(I))

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] NIOSH DFG OSHA
6 mg/m³ STEL [KZGW] NIOSH DFG OSHA

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

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 I(2)
3.0 mg/m³ TWA MAK I(2)

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

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

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

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

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

8.2. Exposure controls

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

Personal protection equipment

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection Special skin protection is not required. Direct skin contact with the product should be avoided.

<i>Eye protection</i>	Normally no eye protection necessary.
<i>Skin and body protection</i>	No special protective equipment is required.
<i>Thermal hazards</i>	None.
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:	None.
Flash point:	Not determined.
Auto-ignition temperature:	None.
Decomposition temperature:	Not determined.
pH:	< 2
Kinematic viscosity:	Not determined.
Solubility:	Not determined.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	1.06
Relative vapour density:	Not determined.
Particle characteristics:	Not applicable.

9.2. Other information

9.2.1 Information with regard to physical hazard classes	Acid Reserve by Young et. al ca. 5.8 g NaOH/100g Produkt
9.2.2 Other safety characteristics	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Reacts with strong oxidizing agents and alkalis, generating heat. Reacts with carbonates to form carbon dioxide.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	Exothermic reaction with strong bases.
10.4. Conditions to avoid	Burning produces obnoxious and toxic fumes.
10.5. Incompatible materials	Acid-labile plastics (POM), low-grade chrome steel, thin/damaged

chrome plating, silver and marble can be attacked.

10.6. Hazardous decomposition products None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Phosphoric acid, Orthophosphoric acid (CAS 7664-38-2) Dermal LD50 Rabbit = 2740 mg/kg (JAPAN_GHS) Inhalation LC50 Rat = 3846 mg/m ³ 1 h(OECD_HP) Oral LD50 Rat = 1530 mg/kg (JAPAN_GHS) Hydrochloric acid (CAS 7647-01-0) 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)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or 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

Information on likely routes of exposure	No data available.
Symptoms related to the physical, chemical and toxicological characteristics	No data available.
Delayed and immediate effects and also chronic effects from short and long term exposure	No data available.
Interactive effects	No data available.

Mixture versus substance information	No data available.
Endocrine disrupting properties	No data available.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity	May change pH of waters.
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 information available.
12.5. Results of PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
12.6. Endocrine disrupting properties	Contains no endocrine disrupting chemicals.
12.7. Other adverse effects	This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	According to the Waste List Regulation 2001/118/EC (AVV), the product and product residues are not classified as hazardous waste. If recycling is not possible, waste must be disposed of in accordance with local official regulations.
Contaminated packaging	Dispose of as unused product.

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.

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

Switzerland - Chemical Risk Reduction Ordinance - Prohibited and Restricted Substances "Use restricted. See annex 2.12 in the regulation (in liquid phase or solution)" As Acids [RR-08658-8]

Switzerland - Water Protection Ordinance - Water Polluting Liquids Classification B

EU - 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 entry 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

UNEP (United Nations Environment Programme) - Basel Convention - Hazardous Wastes - Annex I "Y34 (solid or solution, listed under Acidic solutions or acids in solid form)" As Acids [RR-08658-8]

Hydrochloric acid (CAS 7647-01-0)

Switzerland - Biocides - Annex II - Active Substances - Minimum Purity 999 g/kg Sunset Date: 10/31/2026

Switzerland - Biocides - Annex II - Active Substances - Product Type Product Type: 2

Switzerland - Chemical Risk Reduction Ordinance - Prohibited and Restricted Substances "Use restricted. See annex 2.12 in the regulation (in liquid phase or solution)" As Acids [RR-08658-8]

Switzerland - Water Protection Ordinance - Water Polluting Liquids B

Classification	
EU - 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 (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 2 (expiry date postponed by Commission Implementing Decision 2023/2619/EU)
EU - Biocides (528/2012/EU) - Active Substances	2 - Disinfectants and algacides not intended for direct application to humans or animals (Commission Implementing Decision 2023/2619/EU expiry date should be postponed to October 31, 2026)
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 - European Pollutant Release and Transfer Register (E-PRTR) (166/2006) - Threshold Quantities	"2000000 kg/yr TQ (water as total Cl) 2000000 kg/yr TQ (land as total Cl)" As Chlorides [RR-12853-0]
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See entry 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	Reg. no. 238, hazard class 1 - slightly hazardous to water (footnote 1)

VwVwS	
UN (United Nations) - Convention on Illicit Traffic in Narcotics & Psychotropics - Table II Substances	Present (listed under HS Code: 2806.10)
UNECE - Kiev Protocol on Pollutant Release and Transfer Registers (PRTR) - Annex II - Column 1b - Releases to Water	"2000000 kg/yr (as total Cl)" As Chlorides [RR-12853-0]
UNECE - Kiev Protocol on Pollutant Release and Transfer Registers (PRTR) - Annex II - Column 1c - Releases to Land	"2000000 kg/yr (as total Cl)" As Chlorides [RR-12853-0]
UNECE - Kiev Protocol on Pollutant Release and Transfer Registers (PRTR) - Annex II - Column 2	"2000000 kg/yr (as total Cl)" As Chlorides [RR-12853-0]
UNECE - Kiev Protocol on Pollutant Release and Transfer Registers (PRTR) - Annex II - Column 3	"10000 kg/yr (as total Cl)" As Chlorides [RR-12853-0]
UNEP (United Nations Environment Programme) - Basel Convention - Hazardous Wastes - Annex I	"Y34 (solid or solution, listed under Acidic solutions or acids in solid form)" As Acids [RR-08658-8]
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	H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
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.