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

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

1.1 Product identifier

Substance name/trade name:

durgol® swiss espresso®

Unique Formula Identifier (UFI)

(CH) VESH-G0SP-S20Y-R0G1 (EU) UESH-3027-9205-Q9V9

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

Relevant identified uses: Special decalcifier

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: Street/PO Box: Country code/postal code/city: Contact for technical information: Telephone: +41 44 847 27 47 Fax: +41 44 844 38 90 E-Mail: info@dueringag.ch Distributor/importer (Europa): Street/PO Box: Country code/postal code/city:

dürina aa Brunnenwiesenstrasse 14 CH-8108 Dällikon +41 44 847 27 47

düring trade gmbh Bösendorferstrasse 7 AT-1010 Wien

1.4 Emergency telephone number

National: Swiss Toxicological Information Centre, Zürich 145 or +41 44 251 51 51

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

Hazard symbol:

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



Signal word: Warning

Hazard-determining components of labelling: Contains: Sulfamic acid 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. 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. P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

No

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

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2.4 Other notes

In addition, on the label following voluntary safety instructions with A.I.S.E. pictured symbols:

(1) Keep out of reach of children.

(2) Avoid eye contact. If the product gets in the eyes, rinse thoroughly with water.

(3) Do not swallow. If the product has been swallowed, seek medical attention.

3. 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: Sulfamic acid

EG-No.: 226-218-8 REACH-Reg.-No.: 01-2119488633-28

CAS-No.: 5329-14-6 Index-No.: 016-026-00-0

Content: < 15%

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

According to the concentration classification of the CLP Regulation (EC) No. 1272/2008, the product should be labeled as follows.

Eye Irrit. 2, H319

Skin Irrit. 2, H315

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

First aid measures 4.

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.

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

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

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5.2 Special hazards arising from the substance or mixture

The product is not flammable. In the event of a fire and a temperature of above 200 °C the formation of sulfur oxides, nitrogen oxides and 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 packaging's 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.

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. Combi packaging of the product (original packaging) with original packaged food is permitted in accordance with the regulations of the Food Hygiene Regulation (EG) 852/2004.

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: Not applicable since the product does not fall within the scope of the Technical Guideline for Hazardous Substances (TRGS 510, BG RCI Leaflet M 062).

Durability: At least 3 years

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7.3 Specific end use(s)

The product is a special decalcifier for quality espresso machines of all brands. Additional information, please refer to the label, or our website: www.durgol.com

8. Exposure controls/personal protection

8.1 Control parameters

The product (mixture) does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Name of substance:	Sulfamic acid
EG-No.: 226-218-8	CAS-No.: 5329-14-6
DNEL (Derived No E	Effect Level)

7.5 mg/m³ Workers, inhalative

1.06 mg/kg/day Consumer, oral

1.85 mg/m³ Consumer, inhalative

PNEC (Predicted No-Effect Concentration)

0.3 mg/l	Freshwater
----------	------------

0.3 mg/kg Freshwater sediment, based on dry weight

- 0.03 mg/l Seawater
- 0.03 mg/kg Seawater sediment, based on dry weight

NOAEL (No Observed Adverse Effect Level)

1'000 mg/kg bw/day Consumer, oral, based on body weight

ADI (Acceptable Daily Intake)

10 mg/kg bw/day Consumer, oral, based on body weight

Notes and remarks

None

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.



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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:	Week, characte	eristic		
pH-value undiluted:	< 1.0		[20°C]	DIN 19268
Acid reserve:	approx. 6.10		100g product	J.R. Young et al.
Rating numbers:	> -0.5 ∩ < 1.0			BZ{1} ∩ BZ{2}
Labelling result:	GHS07, Warnir	ng		
Rate of corrosion - Aluminum	1.82 mr	n/a	[55°C] po	otentiostatic
Rate of corrosion - Structural steel	0.70 mr	n/a	[55°C] po	otentiostatic
Resulting rating:	No restrictions	on air tran	sport (Section ⁻	14.8)
Melting Point / freezing point:	approx. 0	°C	[1013 hPa]	by Trottoli
Initial boiling point / boiling range:	approx. 100	°C		DIN 38404 C4
Flash point:	Not applicable			
Inflammability:	The product is	not flamma	able or explosiv	/e.
Upper flammability / explosive limit:	Not applicable			
Lower flammability / explosive limit:	Not applicable			
Vapour pressure:	100	hPa	[20°C]	Calculated
Relative density:	1.08	g/cm ³	[20°C]	ISO 2811-3
Water solubility:	The product is	completely	soluble and m	iscible.
Dynamic viscosity:	0.90	сP	[25°C]	DIN 53221
Kinematic viscosity:	0.83	cSt	[25°C]	Calculated
VOC-Content:	Not applicable			

9.2 Other information

No

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.

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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: Sulfamic acid CAS-No.: 5329-14-6 EG-No.: 226-218-8 Index-No.: 016-026-00-0 Acute toxicity LD50 (oral, Rat), 3160 mg/kg (IUCLID) LD50 (oral, Mouse), 1312 mg/kg (IUCLID) LD50 (oral, Guinea pig), 1050 mg/kg (IUCLID) Corrosion / irritation to the skin Skin (Rabbit), moderate skin irritation (IUCLID) Skin (Rabbit), 24h, severe skin irritation (IUCLID) Skin (Human), mild skin irritation (IUCLID) Serious eve damage / eve irritation Eyes (Rabbit), moderate eye irritation (IUCLID) Eyes (Rabbit), 24h, severe eye irritation (IUCLID) Sensitization of respiratory/skin No data available Summary of the evaluation of CMR properties. Not classified as germ cell mutagen (mutagenic), carcinogenic or reproductive toxic. 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. Indestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Fve Causes severe eye irritation. Signs and Symptoms of Exposure Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms and signs of poisoning are: burning sensation, cough,

wheezing, laryngitis, shortness of breath, headache, Nausea, vomiting. Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx. Aspiration or inhalation may cause chemical pneumonitis.

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).

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The product (mixture) does not contain any allergens subject to labeling according to Regulation (EC) No. 1223/2009 on cosmetic products (new version) in relation to Directive 2003/15 EC on cosmetic products [7. Changes to the former Cosmetics Directive 76/768/EC - Annex III, Section I] and Regulation (EC) No. 646/2004 on detergents - Annex VII, Section A.

12. Ecological information

12.1 Toxicity

Name of substance: Sulfamic acid

EG-No.: 226-218-8 CAS-No.: 5329-14-6

Index-No.: 016-026-00-0

Acute toxicity to Fish

Pimephales promelas (Fathead minnow); LC50 (96h); 70.3 mg/l (IUCLID) Poecilia reticulata (Guppy); LC50 (24h); > 2000 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

Pseudomonas putida; EC10 (16h); > 1000 mg/l (IUCLID)

Sewage treatment plant, Activated sludge (anaerobic); EC50 (24h); > 10000 mg/l (IUCLID)

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

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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. The ingredients of the product and the calcium disulfamates [CAS 13770-92-8] produced during decalcification do not impair sewage treatment plants. The toxicity of sulfamic acid against microorganisms in sewage treatment plants / activated sludge (anaerobic), EC50 (24h), is above 10 g/l (1%) (IUCLID) and is therefore harmless.

Packing

Packing material:

PET-Bottles

15 01 02 Plastic packaging

Waste code according to AVV: 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.

14. Transport information

The product (mixture) is according to ADR/RID 2021 under section 2.2.8.1.6. and especially 2.2.8.1.6.3.5 (Bridging principles) not in class 8 of corrosive substances and therefore not to be 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

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

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

Tunnel restriction code: Not applicable

Classification code: Not applicable

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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, 7th 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

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

No

Restrictions according to Article 57 on substances of very high concern (SVHC):

National regulations

Water hazard class according AwSV, Annex 1 (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) Not applicable

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.22.1] Corrections of a general nature without affecting labeling. In Section 15.1 [Safety, health and environmental regulations/legislation specific for the substance or mixture], the water hazard class was newly determined in accordance with the Ordinance on Facilities for Handling Substances Hazardous to Water (AwSV). Author of the material safety data sheet

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

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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 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

Skin Irrit. 2, H315; Skin corrosion; Category 2; Causes skin irritation.

Eye Irrit. 2, H319; Serious eye damage/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:

Kosher product; Rabbinate Kashrus List of the Israelite Society Zurich (IRGZ)

16.6 Legend of abbreviations used

•	
٩DI	Acceptable Daily Intake
ADR	European Agreement concerning the International Carriage of Dangerous Goods by
	Road
٩F	Overall Assessment Factor
AGS	Committee on Hazardous Substances
AGW	Occupational Exposure Limits
AVV	Wastes Ordinance
AwSV	Ordinance on Facilities for Handling Substances Hazardous to Water (Germany)
ЗАТ	Biological workplace concentration
3GW	biological tolerance for work
3ImSchV	Regulation on the implementation of the Federal Pollution Control Act (Germany)
3Z	Acid reserve rating numbers {1} and {2} for labelling classification
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (Regulation)
CMR	Carcinogenic, mutagenic or toxic to reproduction
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
ΞN	Europäische Norm
EQ	Excepted Quantity (Freigestellte Menge)
EU	European Union
GHS	Globally Harmonized System of Classification and Labelling of Chemicals

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GWP HD-PE IARC IATA-DGF IBC-Code ICAO-TI IMDG ISO INCI IUCLID LC LD LQ MAK MARPOL NIOSH NOAEL/NO ODP OECD PBT PET PNEC POM REACH RID RTECS STEL TRGS STEL TRGS STEL TRGS STOT STP SVHC TRbF UFI UN VbF VCI VOC vPVB VwVwS WGK	International Ag International Air International Bu International Bu International Bu International Civ International Ma Norms of the Int International Mo International Un Lethal Concentr Lethal Dose Limited Quantity Occupational Es Maritime Pollution National Institut OAEC No Obser Ozone Depleting Organization for Persistent, bioac Polyethylene ter Predicted No Ef Polyoxymethyle Registration, Ev Rules for interna Registry of Toxis Short-Term Exp Technical Rules Specific Target Sewage Treatm Substances of M Technical Regul Unique Formula United Nations Regulations for German Chemic Volatile Organic	yethylene, thermo ency for Research Transport Associa ilding Code vil Aviation Organiz aritime Dangerous cernational Standar menclature of Cos iform Chemical Inf ation (convention of Occupational S ved Adverse Effect g Potential (Ozona Economic Coope ccumulative, toxic rephthalate, thermo- fect Concentration ne (polyacetal) the aluation and Author ational carriage of c Effects of Chemi osure Limit (Grenz for Hazardous Su Organ Toxicity ent Plant (ery High Concern lations of flammab I Identifier (ECHA) flammable liquids cal Industry Associ Compounds and very bioaccum Regulation on subs	on Cancer ation - Dangerous Goo ration - Technical Inst Goods rds Organization metic Ingredients ormation Database afety & Health et Level/Concentration bbaupotential) ration and Development oplastic prisation of Chemicals dangerous goods by r cal Substances ewert für Kurzzeitexpoo bstances le liquids (Germany) ation	ructions

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.