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

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

1.1 Product identifier

Substance name/trade name: Article number: **411** (1000ml) durgol[®] universal

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

Relevant identified uses: Fast 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: dürina aa 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: Frieling USA Inc. Street/PO Box: 398 York Southern Rd. Fort Mill, SC 29715-7715 - USA Country code/postal code/city: Telephone: +1 704 329 51 00

1.4 Emergency telephone number

National:Swiss Toxicological Information Centre, Zürich 145 or +41 44 251 51 51International: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 Irrit. 2, H319 / Skin Irrit. 2, H315

2.2 Label elements

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

•	
Hazard symbol:	GHS07 Signal word: Warning
Hazard-determining Contains: Sulfamic	components of labelling: acid
Hazard warnings ac Health Hazards:	cording to CLP/GHS Regulation (EC) No. 1272/2008 (H-phrases):
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Safety precautions a General	according to CLP/GHS Regulation (EC) No. 1272/2008 (P-phrases):
P102 Reaction	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.
P337+P313	If eye irritation persists: Get medical advice/attention.

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2.3	Disposal P501 Other haza	•	of contents/contain	er in accordance	with national regulations.
3.	No	ion/informatio	on on ingredien	e	
3.1	Substance Not applica	S	in on ingredien	<u></u>	
3.2	•	•	ixture with the follov	ving hazardous in	gredients.
	EG-No.: 22 REACH-Re Content: <	gNo.: 01-211948 15%	CAS-No.: 5329-		Index-No.: 016-026-00-0
			A		
	Eye	Irrit. 2, H319	Skin Irrit	2, H315	Aquatic Chronic 3, H412

4. 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.

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

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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 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.

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: At lower temperatures a reversible crystal formation can arise. Increased temperatures, e.g. during transport, do not affect the product properties. Storage class: 12 (VCI) Non-combustible liquids.

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Durability: At least 3 years

7.3 Specific end use(s)

Fast descaler for all household items such as filter - coffee machines, kettles, steam irons, faucet filters, shower heads, vessels (pots, vases, glasses rack, etc.), fittings and surfaces in kitchen and bathroom. 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

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: Farbe:	Liquid Light blue		
Odour:	Week, characteristic		
pH-value undiluted:	< 1.0	[20°C]	DIN 19268
Acid reserve: Rating numbers: Labelling result:	approx. 6.05 g NaOH/1 > -0.5 ∩ < 1.0 GHS07, Warning	00g product	J.R. Young et al. BZ{1} ∩ BZ{2}

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Initial boi Flash poi Inflamma Upper fla		nge: approx. Not appli The prod e limit: Not appli	100 °C cable uct is not flamm cable	[1013 hPa] nable or explosiv	By Trottoli DIN 38404 C4 /e.
2	density: lubility: viscosity: c viscosity:	95 1.08 The prod 0.90 0.83 Not appli	cP cSt	[20°C] [20°C] ly soluble and m [25°C] [25°C]	Calculated ISO 2811-3 niscible. DIN 53221 Calculated

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.

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 EG-No.: 226-218-8 CAS-No.: 5329-14-6 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 eye damage / eye irritation

durgol[®] universal

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Eye	es (Rabbit), moderate e es (Rabbit), 24h, severe itization of respiratory/s	e eye irritation (IUCI		
Gern	data available n cell mutagenicity: data available			
Carc IAF	inogenicity RC: No component of th ntified as probable, pos			
Repr	oductive toxicity data available			
	fic target organ toxicity data available	/ - single exposure		
	ific target organ toxicity data available	 repeated exposu 	re	
	ation hazard data available			
	ntial health effects alation			
Ν	lay be harmful if inhaled	d. Causes respirato	ry tract irritation.	
Ň	ay be harmful if swallo	wed.		
	lay be harmful if absorb	ed through skin. Ca	auses skin irritation.	
Eye C	e auses severe eye irrita	tion.		
Ma trac wh the	ct, eyes, and skin. Sym eezing, laryngitis, short	ructive to tissue of the ptoms and signs of ness of breath, hea pasm, inflammation	poisoning are: burnin dache, Nausea, vom and edema of the b	iiting. Inhalation may provoke ronchi, spasm, inflammation
	notes and information	tion		
The	CS: No data available information specified in uct (mixture).	section 11.1 are va	alid only for pure sub	stances and not for the

Name of substance: Sulf	amic acid	
EG-No.: 226-218-8	CAS-No.: 5329-14-6	Index-No.: 016-026-00-0
Acute toxicity to Fish		
Pimephales promelas (F	athead minnow); LC50 (96h); 70.	3 mg/l (IUCLID)
Poecilia reticulata (Gupp	oy); LC50 (24h); > 2000 mg/l (IUCl	_ID)
Acute toxicity to aquatic Ir	nvertebrates	
No data available		
Toxicity to Aquatic Plants No data available	e.g. Algae	

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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

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: Waste code according to AVV:

PET-Bottles 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 hazardous. 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 Tunnel restriction code: 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)

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	applicable			
-	ation (EC) No 689/2 applicable	2008 (Export and imp	port of dangerous chemicals):	
The			down in Regulation (EC) No 648/2	004.
No			()	
Nationa	l regulations			
	hazard class accor	ding VwVwS, Anne» polluting	(4 (Germany)	
	t regulation (31. Bl	mSchV) (Germany) cable		
	dous Incident Ordin applicable	ance (12. BlmSchV) (Germany)	
	ical instructions on applicable	air quality (TA-Luft)	(Germany)	
Refere No	ence to technical rul	es for hazardous su	bstances (TRGS) (Germany)	
		ification and regulat	ions	
NFP	A 704 (Hazard Dian	nond)	HMIS	
			Health Hazard	1
			Slightly Hazardous	
			Flammability	0
	1×0		Will not burn	
			Physical Hazard Stable	0
			Personal Protection	•
			No Specific Information	-
		ventory (U.S. EPA):	Listed	
	TK (New Jersey): (Massachusetts):		Listed Listed	
	(Pensylvania):		Listed	
		e Inventory (U.S. El		
	osal 65 (California)		Not listed	
		dentification and reg		
DSL: WHI			Listed Not regulated	
		ic hazard identificati	-	
NIC	IAS (Australia):		Not assessed	
ENC	S/MITI (Japan):		Listed 1-402 (MITI-No.)
	(Korea):		Listed	

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.

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16. Other information

16.1 Changes since the last version

[V.15.1] The entries in section 2. and 3. according to the Directives 67/548/EEC and 1999/45/EC were deleted. Both Directives are/were repealed with the 01.06.2015 and replaced by Regulation (EC) No. 1272/2008.

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

Eye Irrit. 2, H319; Serious eye damage/eye irritation; Category 2; Causes severe eye irritation. Skin Irrit. 2, H315; Skin corrosion; Category 2; Causes skin irritation.

Aquatic Chronic 3, H412; CHRONIC AQUATIC TOXICITY - Category 3; Harmful to aquatic life with long lasting effects.

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

- 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
- AICS Australien Inventory of Chemical Substances
- AVV Wastes Ordinance
- BAT Biological workplace concentration
- BGW biological tolerance for work
- BImSchV 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)

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DFG			-	ards of substances. MAK
DIN			chungsgemeinschaft	(DFG)
DIN		erman Institute for	Standardization	
DNEL	Derived No Effe			
DOC DSL	Dissolved Orga	ances List (Canad	2)	
EC	Effective Conze	•	a)	
EC/EEC			Economic Communit	hv.
ECHA	European Chen			. y
ECL	•	Chemicals List		
EN	Europäische No			
ENCS/MIT	I Japanese and E		nical Substances Inve	entory / Ministry of
EQ		tity (Freigestellte N	(enge)	
EU	European Unior			
GHS			lassification and Labe	elling of Chemicals
GWP	Global Warming			enning er errernedie
HD-PE	•	lyethylene, thermo	plastic	
HMIS		erials Identification		
IARC		ency for Research	,	
IATA-DGR			ation - Dangerous Go	oods Regulations
IBC-Code	International Bu	•	Ū	C C
ICAO-TI		-	zation - Technical Ins	tructions
IMDG	International Ma	aritime Dangerous	Goods	
ISO	Norms of the In	ternational Standa	rds Organization	
INCI	International No	menclature of Cos	metic Ingredients	
IUCLID	International Ur	iform Chemical Inf	ormation Database	
LC	Lethal Concenti	ration		
LD	Lethal Dose			
LQ	Limited Quantity			
MAK	Occupational E			
MARPOL	Maritime Polluti		(110.4.)	
NFPA		otection Association	. ,	
NICNAS				nent Scheme (Australia)
NIOSH		of Occupational S	-	
		ht To Know (Labe		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
NOAEL/NO ODP		g Potential (Ozona	ct Level/Concentration	11
OECD	•		ration and Developm	ont
PBT		ccumulative, toxic	ration and Developin	ent
PET		rephthalate, therm	onlastic	
PICCS			and Chemical Subs	tances
PNEC		fect Concentration		
POM		ne (polyacetal) the		
REACH			prisation of Chemical	s (Regulation)
RID	-		dangerous goods by	
RTECS		c Effects of Chemi		
RTK	- ·	_abelling) (U.S. Sta		
STEL	-	• , ,	zwert für Kurzzeitexpo	osition)
TRGS	Technical Rules	s for Hazardous Su	bstances	
SARA	Superfund Ame	ndments and Rea	uthorization Act (USA	A)
STOT	Specific Target	Organ Toxicity		
STP	Sewage Treatm			
TSCA	Toxic Substanc	es Control Act (US	A)	

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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 (Germany)			
WHMIS	Workplace Hazardous Materials Information System (Canada)			

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.