

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ARISTON

Revision date: 09.03.2017

Product code: 70171_CLP

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

ARISTON

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

Professional use of general surface cleaning products

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	DR.SCHNELL GmbH & Co. KGaA	
Street:	Taunusstraße 19	
Place:	D-80807 München	
Telephone:	+49/89/350608-0	Telefax: +49/89/350608-47
e-mail:	info@dr-schnell.de	
Contact person:	Josef Feuerstein	Telephone: +49/89/350608-46
e-mail:	sdb@dr-schnell.de	
Internet:	www.dr-schnell.de	
Responsible Department:	Labor	

1.4. Emergency telephone number:Emergency CONTACT (24-Hour-Number) international:
GBK GmbH +49 (0) 61 32 - 8 44 63**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes serious eye damage.

Causes skin irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Ethoxylated isotridecanol (2.5-5 EO)

isotridecanol, ethoxylated

Sulfonic acids, C14-17-sec-alkane, sodium salts

caustic potash, potassium hydroxide

Signal word: Danger**Pictograms:****Hazard statements**

H290

May be corrosive to metals.

H318

Causes serious eye damage.

H315

Causes skin irritation.

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Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
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/doctor.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.
High pH value can damage water.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
112-34-5	2-(2-Butoxyethoxy)ethanol	5 - < 10 %
	203-961-6	603-096-00-8
	Eye Irrit. 2; H319	
69011-36-5	Ethoxylated isotridecanol (2.5-5 EO)	1 - < 5 %
	931-138-8	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	
69011-36-5	isotridecanol, ethoxylated	1 - < 5 %
	931-138-8	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
15763-76-5	Sodium cumenesulphonate	1 - < 5 %
	239-854-6	01-2119489411-37
	Eye Irrit. 2; H319	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	1 - < 5 %
	307-055-2	01-2119489924-20
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412	
1310-58-3	caustic potash, potassium hydroxide	1 - < 5 %
	215-181-3	019-002-00-8
	01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314	
1344-09-8	Silicic acid, sodium salt	< 1 %
	215-687-4	01-2119448725-31
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	

Full text of H and EUH statements: see section 16.

Further Information

Regulation (EC) No. 648/2004 (Detergents regulation)
5 % - < 15 % nonionic surfactants
< 5 % anionic surfactants, phosphonates
perfumes: limonene, linalool

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move victim out of danger zone. Provide fresh air.
In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
Call a physician immediately. To be accompanied by MSDS.
Protect uninjured eye. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.
Rinse mouth immediately and drink plenty of water.
Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

If applicable, delayed symptoms and effects can be found in section 11. , i.e. under section 4.1 for absorption methods.

4.3. Indication of any immediate medical attention and special treatment needed

Eyewash station and safety shower must be located near the processing area.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. / Foam. / Carbon dioxide (CO2). / Dry extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Nitrogen oxides (NOx).
Sulfur oxides.
Gas/vapours, corrosive.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.
Alkali-resistant protective clothing (EN 13034)
If necessary Full protective suit.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin.
If necessary Caution, slippery

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6.2. Environmental precautions

- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Prevent surface and ground-water infiltration, as well as ground penetration.
- Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

6.3. Methods and material for containment and cleaning up

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.
- Neutralisation possible by an expert.
- Suitable material for diluting or neutralizing: acid.

6.4. Reference to other sections

- For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

- In addition to the information contained in this section, relevant information can also be found in sections 8 and 6.1.

Further information on handling

- Provide adequate ventilation.
- Avoid contact with eyes and skin.
- When using do not eat, drink or smoke.
- Observe instructions for use.
- Notice the directions for use on the label.
- Working methods should be applied according to operating instructions.
- General hygiene measures for the handling of chemicals are applicable.
- Wash hands before breaks and after work.
- Keep away from food, drink and animal feedingstuffs.
- Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

- Store in a place accessible by authorized persons only.
- Store product closed and only in original packing.
- Not to be stored in gangways or stair wells.
- Do not use materials not resistant to alkali.

7.3. Specific end use(s)

- No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls

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Appropriate engineering controls

Provide adequate ventilation.
 This can be achieved by local exhaust ventilation or general ventilation.
 When exceeding the occupational exposure limit (OEL):
 Use appropriate respiratory protection.
 Applies only if maximum permissible exposure values are listed here.

Protective and hygiene measures

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and after work.
 Keep away from food, drink and animal feedingstuffs.
 Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection

Tightly sealed safety glasses. (EN 166)
 If necessary Wear face protection.

Hand protection

Protective gloves made of natural latex (EN 374), Permeation time (penetration time) in minutes: 480
 Protective gloves of nitrile (EN 374), Permeation time (penetration time) in minutes: 480
 Recommendation: Manufacturer: KCL GmbH, D-36124 Eichenzell, E-Mail: vertrieb@kcl.de
 Specification No.: 706 Lapren, 730 Camatril Velours
 Hand lotion are recommended.

No tests have been carried out.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Alkali-resistant protective clothing (EN 13034)

Respiratory protection

When exceeding the occupational exposure limit (OEL): Filter A (EN 14387), brown
 Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

pH-Value:	13	Test method
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Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	~100 °C
Flash point:	> 100 °C

Flammability

Solid:	not determined	No.
Gas:	not determined	

Explosive properties

not determined

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Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined
Auto-ignition temperature	
Solid:	not determined
Gas:	not determined
Oxidizing properties	
not determined	
Vapour pressure:	not determined
Vapour pressure:	not determined
Density:	not determined
Bulk density:	not applicable
Water solubility:	easily soluble.
Solubility in other solvents	
not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Vapour density:	not determined
Solvent content:	not determined

9.2. Other information

Mixability: not determined
 Fat solubility (g/l): not determined
 Conductivity: not determined
 Surface tension: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product has not been tested.

10.2. Chemical stability

Stable with proper storage and handling.

10.3. Possibility of hazardous reactions

Contact with strong acids leads to strong reaction and heat production
 Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc)
 (explosive hazard!).

10.4. Conditions to avoid

See also section 7.
 No information available.

10.5. Incompatible materials

Avoid contact with strong acids.
 Avoid contact with materials that are not alkali resistant.

10.6. Hazardous decomposition products

See also section 5.2.
 No decomposition when used as directed.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Observations relevant to classification: pH

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethanol				
	oral	LD50 mg/kg 5660	Rat		
	dermal	LD50 mg/kg 4120	Rabbit		
69011-36-5	Ethoxylated isotridecanol (2.5-5 EO)				
	oral	LD50 mg/kg >2000	Rat		
	dermal	LD50 mg/kg >2000	Rabbit		
69011-36-5	isotridecanol, ethoxylated				
	oral	LD50 mg/kg >300- 2000	Rat		
	dermal	LD50 mg/kg >2000	Rabbit		
15763-76-5	Sodium cumenesulphonate				
	oral	LD50 mg/kg >2000	Rat		
	dermal	LD50 mg/kg >2000	Rabbit		
	inhalative (4 h) vapour	LC50 >5 mg/l	Rat		
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts				
	oral	LD50 mg/kg >2000	Rat		
	dermal	LD50 mg/kg >2000	Mouse.		
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 mg/kg 273	Ratte	RTECS	
1344-09-8	Silicic acid, sodium salt				
	oral	LD50 mg/kg >2000	Rat		
	dermal	LD50 - mg/kg		No data available	
	inhalative vapour	LC50 - mg/l		No data available	

Irritation and corrosivity

Causes serious eye damage.

Causes skin irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethanol					
	Acute algae toxicity	ErC50 > 100 mg/l		Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		
69011-36-5	Ethoxylated isotridecanol (2.5-5 EO)					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna		
69011-36-5	isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna		
15763-76-5	Sodium cumenesulphonate					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Grünalge	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts					
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 >61 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 9,81 mg/l	48 h	Daphnia magna		
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50 80 mg/l	96 h	Gambusia affinis	IUCLID	
1344-09-8	Silicic acid, sodium salt					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Brachydanio rerio (zebra-fish)		

12.2. Persistence and degradability

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The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol	0,56 (25°C)

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

For example: designated incinerator

E.g. dispose at suitable refuse site.

Neutralisation possible by an expert.

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Dispose of waste according to applicable legislation.

Recommendation: For example: designated incinerator

Completely emptied packages can be recycled.

Dispose using dual system.

Non-contaminated packages must be recycled or disposed of.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.
(Disodium Trioxosilicate, caustic potash, potassium hydroxide)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8

Classification code:

C5

Special Provisions:

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Limited quantity: 1 L
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Other applicable information (land transport)

Excepted Quantities: E2

Inland waterways transport (ADN)

14.1. UN number: UN1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.
 (Disodium Trioxosilicate, caustic potash, potassium hydroxide)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8
 Classification code: C5
 Special Provisions: 274
 Limited quantity: 1 L

Other applicable information (inland waterways transport)

Excepted Quantities: E2

Marine transport (IMDG)

14.1. UN number: UN1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.
 (Disodium Trioxosilicatecaustic; potash, potassium hydroxide)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8
 Special Provisions: 274
 Limited quantity: 1 L
 EmS: F-A, S-B

Other applicable information (marine transport)

Excepted Quantities: E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN1719
14.2. UN proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.
 (Disodium Trioxosilicatecaustic; potash, potassium hydroxide)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8
 Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 855
 IATA-max. quantity - Cargo: 30 L

Other applicable information (air transport)

Excepted Quantities: E2

Passenger-LQ: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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14.6. Special precautions for user

Persons responsible for the transport of dangerous goods must be trained.
Security provisions must be observed by all persons involved.
Precautions must be taken to avoid injury

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable, as freight is carried as general cargo, not in bulk.
Minimum quantity regulations are not observed here.

Other applicable information

Hazard number and packing code are available on request.

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

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-Butoxyethoxy)ethanol

2010/75/EU (VOC): <0,1%

2004/42/EC (VOC): <0,1%

Additional information

For classification and labelling, see section 2.
Observe trade association/occupational health regulations.

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information**Changes**

Revised sections: 7, 16

Abbreviations and acronyms

vPvB = very persistent very bioaccumulative
PBT = persistent bioaccumulative toxic

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)