

Trade name: Acid Shampoo A**Product no.:** 311999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

Acid Shampoo A**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Cleaner

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1; H314

Classification information

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05

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Danger

Hazardous component(s) to be indicated on label:

phosphoric acid

methanesulphonic-acid

dimethyl(tetradecyl)amine oxide

Hazard statement(s)

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260

Do not breathe vapours/spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P390

Absorb spillage to prevent material damage.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	phosphoric acid		
	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24	Met. Corr. 1; H290 Skin Corr. 1B; H314 Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10.00 - < 25.00 %-b.w.
2	methanesulphonic-acid		
	75-75-2 200-898-6 607-145-00-4 01-2119491166-34	Skin Corr. 1B; H314 Met. Corr. 1; H290 Acute Tox. 4; H302 Acute Tox. 4; H312 STOT SE 3; H335	>= 5.00 - < 10.00 %-b.w.
3	dimethyl(tetradecyl)amine oxide		
	3332-27-2 222-059-3	Acute Tox. 4; H302 Aquatic Acute 1; H400	>= 5.00 - < 10.00 %-b.w.

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-	01-2119949262-37	Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315		
4	2-butoxyethanol			
	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 5.00 - < 10.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	B	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. In case of persisting adverse effects consult a physician.

After skin contact

Wash immediately with plenty of water for several minutes. Call a doctor immediately.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Phosphorus oxides; Sulphur oxides (SxO_y); Nitrogen oxides (NO_x); Corrosive gases/vapours

5.3 Advice for firefighters

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Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dilute with plenty of water.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
List of approved workplace exposure limits (WELs) / EH40			
	Orthophosphoric acid		
	WEL short-term (15 min reference period)	2	mg/m ³

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	WEL long-term (8-hr TWA reference period)	1	mg/m ³		
	2000/39/EC				
	Orthophosphoric acid				
	WEL short-term (15 min reference period)	2	mg/m ³		
	WEL long-term (8-hr TWA reference period)	1	mg/m ³		
2	2-butoxyethanol	111-76-2	203-905-0		
	2000/39/EC				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m ³	50	ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m ³	20	ppm
	Skin resorption / sensibilisation		Skin		
	List of approved workplace exposure limits (WELs) / EH40				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m ³	50	ppm
	WEL long-term (8-hr TWA reference period)	123	mg/m ³	25	ppm
	Comments		Sk, BMGV		

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	phosphoric acid			7664-38-2 231-633-2
	inhalative	Long term (chronic)	local	1 mg/m ³
	inhalative	Short term (acut)	local	2 mg/m ³
	inhalative	Long term (chronic)	systemic	10.7 mg/m ³
2	methanesulphonic-acid			75-75-2 200-898-6
	dermal	Long term (chronic)	systemic	19.44 mg/kg/day
	inhalative	Long term (chronic)	systemic	6.76 mg/m ³
	inhalative	Long term (chronic)	local	0.7 mg/m ³
3	dimethyl(tetradecyl)amine oxide			3332-27-2 222-059-3
	dermal	Long term (chronic)	systemic	11 mg/kg/day
	inhalative	Long term (chronic)	systemic	6.2 mg/m ³
4	2-butoxyethanol			111-76-2 203-905-0
	dermal	Long term (chronic)	systemic	125.00 mg/kg/day
	dermal	Short term (acut)	systemic	89.00 mg/kg/day
	inhalative	Long term (chronic)	systemic	98.00 mg/m ³
	inhalative	Short term (acut)	systemic	1091.00 mg/m ³
	inhalative	Long term (chronic)	local	246.00 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	phosphoric acid			7664-38-2 231-633-2
	oral	Long term (chronic)	systemic	0.1 mg/kg/day
	inhalative	Long term (chronic)	local	0.36 mg/m ³
	inhalative	Long term (chronic)	systemic	4.57 mg/m ³
2	methanesulphonic-acid			75-75-2 200-898-6
	oral	Long term (chronic)	systemic	8.33 mg/kg/day
	dermal	Long term (chronic)	systemic	8.33 mg/kg/day
	inhalative	Long term (chronic)	systemic	1.44 mg/m ³
	inhalative	Long term (chronic)	local	0.42 mg/m ³

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3	dimethyl(tetradecyl)amine oxide			3332-27-2 222-059-3
	oral	Long term (chronic)	systemic	0.44 mg/kg/day
	dermal	Long term (chronic)	systemic	5.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	1.53 mg/m ³
4	2-butoxyethanol			111-76-2 203-905-0
	oral	Long term (chronic)	systemic	6.30 mg/kg/day
	oral	Short term (acut)	systemic	26.70 mg/kg/day
	dermal	Long term (chronic)	systemic	75.00 mg/kg/day
	dermal	Short term (acut)	systemic	89.00 mg/kg/day
	inhalative	Long term (chronic)	systemic	59.00 mg/m ³
	inhalative	Short term (acut)	systemic	426.00 mg/m ³
	inhalative	Long term (chronic)	local	147.00 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	methanesulphonic-acid		75-75-2 200-898-6
	water	fresh water	0.012 mg/L
	water	marine water	0.001 mg/L
	water	Aqua intermittent	0.12 mg/L
	water	fresh water sediment	0.044 mg/kg
	water	marine water sediment	0.004 mg/kg
	soil	-	0.002 mg/kg
	sewage treatment plant	-	100 mg/L
2	dimethyl(tetradecyl)amine oxide		3332-27-2 222-059-3
	water	fresh water	0.034 mg/L
	water	marine water	0.003 mg/L
	water	Aqua intermittent	0.034 mg/L
	water	fresh water sediment	5.24 mg/kg dry weight
	water	marine water sediment	0.524 mg/kg dry weight
	soil	-	1.02 mg/kg dry weight
	sewage treatment plant	-	24 mg/L
	secondary poisoning	-	11.1 mg/kg
	with reference to: food		
3	2-butoxyethanol		111-76-2 203-905-0
	water	fresh water	8.80 mg/L
	water	marine water	0.88 mg/L
	water	fresh water sediment	34.60 mg/kg
	with reference to: dry weight		
	water	marine water sediment	3.46 mg/kg
	water	Aqua intermittent	26.4 mg/L
	soil	-	2.33 mg/kg dry weight
	sewage treatment plant	-	463.00 mg/L
	secondary poisoning	-	0.02 g/kg

8.2 Exposure controls**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and

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solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Appropriate Material	neoprene		
Appropriate Material	Polychloroprene		
Material thickness	>	0.5	mm
Breakthrough time	>	480	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

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

Form/Colour	
liquid	
yellow	
Odour	
characteristic	
Odour threshold	
No data available	
pH value	
Value	< 1
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
No data available	
Auto-ignition temperature	
No data available	
Oxidising properties	
not oxidizing	
Explosive properties	

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The product does not have explosive properties.

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value	1.09	g/cm ³
Reference temperature	20	°C

Solubility in water

Comments miscible

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
	log Pow		0.81
	Reference temperature		25 °C
	Source	ECHA	

Viscosity

No data available

9.2 Other information**Other information**

No data available.

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

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium)

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

strong bases; strong oxidizing agents

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10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Acid Shampoo A
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
LD50		300	2000
Species		rat	mg/kg bodyweight
Method		OECD 423	
Source		ECHA	
2	methanesulphonic-acid	75-75-2	200-898-6
LD50			649
Species		rat	mg/kg bodyweight
Method		OECD 401	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
3	dimethyl(tetradecyl)amine oxide	3332-27-2	222-059-3
LD50			1495
Species		rat	mg/kg bodyweight
Method		OECD 401	
Source		ECHA	
4	2-butoxyethanol	111-76-2	203-905-0
LD50			1746
Species		rat	mg/kg bodyweight
Method		OECD 401	
Source		ECHA	

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Acid Shampoo A
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	methanesulphonic-acid	75-75-2	200-898-6
LD50		>=	1000
Species		rabbit	mg/kg bodyweight
Method		OECD 402	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	2-butoxyethanol	111-76-2	203-905-0
LD50		>	2000
			mg/kg bodyweight

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Species	guinea pig
Method	OECD 402
Source	ECHA

Acute inhalational toxicity (result of the ATE calculation for the mixture)

No	Product Name
1	Acid Shampoo A
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
ATE		1.5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Species	rabbit		
Source	ECHA		
Evaluation	strongly corrosive		
2	methanesulphonic-acid	75-75-2	200-898-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irreversible effects on the eye		
Evaluation/classification	Based on available data, the classification criteria are met.		
3	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-butoxyethanol	111-76-2	203-905-0
Method	OECD 471		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species		rat	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	methanesulphonic-acid	75-75-2	200-898-6
LC50		73	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
2	2-butoxyethanol	111-76-2	203-905-0
LC50		>	1474 mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
NOEC		>	100 mg/l
Duration of exposure		21	day(s)
Species		Danio rerio	
Method		OECD 204	
Source		ECHA	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50		>	100 mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	

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Source		ECHA	
2	methanesulphonic-acid	75-75-2	200-898-6
EC50		260	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	2-butoxyethanol	111-76-2	203-905-0
EC50		1550	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
NOEC		100	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	methanesulphonic-acid	75-75-2	200-898-6
EC50	12	- 24	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	2-butoxyethanol	111-76-2	203-905-0
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
EC50	>	1000	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0

Trade name: Acid Shampoo A**Product no.:** 311999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB

Type	aerobic biodegradation
Value	90.4 %
Duration	28 day(s)
Method	OECD 301 B
Source	ECHA
Evaluation	readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0.81	
Reference temperature		25	°C
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information
Do not let enter the product into drains or waterways and do not store on public depositories.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	8
Classification code	C9
Packing group	II
Hazard identification no.	80
UN number	UN1760

Trade name: Acid Shampoo A**Product no.:** 311999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB

Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	phosphoric acid methanesulphonic-acid
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	phosphoric acid methanesulphonic-acid
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Technical name	phosphoric acid methanesulphonic-acid
Label	8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

Trade name: Acid Shampoo A**Product no.:** 311999**Current version :** 1.0.0, issued: 14.09.2020**Replaced version:** -, issued: -**Region:** GB

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.
The surfactants contained in this product comply with the DetVO 648/2004/EC.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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