

BS Farmacip


Creation date	02nd December 2010	Version	11
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
 Substance / mixture: BS Farmacip mixture
 UFI: AN70-R088-800V-CY6K
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 For professional use only. Acidic detergent for CIP (phosphate and nitrate free). Food disinfectant (product type 4).
Main intended use
 PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)
Mixture uses advised against
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
 Name or trade name: UAB "BS Chemical"
 Address: Briedžio g. 13, Kretinga, Lithuania
 Phone: +37066373748
 E-mail: info@bs-chemical.lt
 Web address: www.bs-chemical.com
Email address for a competent person responsible for the safety data sheet
 Name: Gintarė Lisauskienė
 E-mail: gintare@bs-chemical.lt
- 1.4. Emergency telephone number**
 European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
 The mixture is classified as dangerous.

 Skin Corr. 1A, H314
 Eye Dam. 1, H318
 Aquatic Chronic 4, H413
Most serious adverse effects on human health and the environment
 Causes severe skin burns and eye damage. Causes serious eye damage. May cause long lasting harmful effects to aquatic life.
- 2.2. Label elements**
Hazard pictogram

- Signal word**
 Danger
- Hazardous substances**
 sulfamic acid
 sulphuric acid ... %
 formic acid ... %
 Glycollic acid
- Hazard statements**
 H314 Causes severe skin burns and eye damage.
 H413 May cause long lasting harmful effects to aquatic life.
- Precautionary statements**
 P260 Do not breathe dust/mist.

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P264	Wash face, hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to in accordance with national regulations.

Supplemental information

<5 % anionic surfactants, <5 % non-ionic surfactants

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 016-026-00-0 CAS: 5329-14-6 EC: 226-218-8	sulfamic acid	5-15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
Index: 016-020-00-8 CAS: 7664-93-9 EC: 231-639-5	sulphuric acid ... %	5-15	Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1A, H314: C ≥ 15 % Eye Irrit. 2, H319: 5 % ≤ C < 15 % Skin Irrit. 2, H315: 5 % ≤ C < 15 %	1, 2, 3, 4
Index: 607-001-00-0 CAS: 64-18-6 EC: 200-579-1	formic acid ... %	≤5	Flam. Liq. 3, H226 Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 3, H331 Specific concentration limit: Skin Irrit. 2, H315: 2 % ≤ C < 10 % Eye Irrit. 2, H319: 2 % ≤ C < 10 % Skin Corr. 1A, H314: C ≥ 90 % Skin Corr. 1B, H314: 10 % ≤ C < 90 % Flam. Liq. 3, H226: C > 85 % ATE Inhalation (vapor) = 7,4 mg/l ATE Oral = 500 mg/kg bw Eye Dam. 1, H318: C ≥ 10 %	1, 2
CAS: 79-14-1 EC: 201-180-5	Glycollic acid	0.25	Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 EUH071	

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Notes

- 1 *Note 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.*
- 2 *A substance for which exposure limits are set.*
- 3 *Explosive precursor*
- 4 *Drug precursor*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

If inhalation of aerosols or vapors during an accident has occurred, immediately stop the contact - remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

If on skin

Take off immediately all contaminated clothing. Rinse skin with plenty of lukewarm, gently flowing water at least 10 minutes. Immediately call a POISON CENTRE, doctor or physician. Wash contaminated clothing before reuse.

If in eyes

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. It is recommended to use special eye wash fluids. Immediately call a POISON CENTRE, doctor or physician.

If swallowed

Rinse mouth. Do NOT induce vomiting. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Call a POISON CENTER/ doctor if you feel unwell.

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

If inhaled

No known effects or symptoms in normal use.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Ingestion will lead to a strong acid effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

No special hazards known.



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5.3. Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3. Methods and material for containment and cleaning up

Use neutralising agent. Absorb onto dry sand or similar inert material.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Measures to prevent fire and explosions: no special precautions required. Measures required to protect the environment: for environmental exposure controls see subsection 8.2. Advices on general occupational hygiene: handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container, at temperature +5°C ÷ +35°C and avoid freezing. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Storage temperature +5...+35 °C

7.3. Specific end use(s)

For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
formic acid ... % (CAS: 64-18-6)	OEL 8 hours	9 mg/m ³
	OEL 8 hours	5 ppm

European Union

Commission Directive 2009/161/EU

Substance name (component)	Type	Value
Sulphuric acid (mist) (CAS: 7664-93-9)	OEL 8 hours	0,05 mg/m ³

DNEL

formic acid ... %				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	9.5 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	9.5 mg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	3 mg/m ³	Chronic effects systemic	ECHA

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formic acid ... %				
Workers / consumers	Route of exposure	Value	Effect	Source
Consumers	Inhalation	3 mg/m ³	Chronic effects local	ECHA

Glycollic acid				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	14.811 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	12.944 mg/m ³	Acute effects systemic	ECHA
Workers	Inhalation	2.157 mg/m ³	Chronic effects local	ECHA
Workers	Inhalation	12.944 mg/m ³	Acute effects local	ECHA
Workers	Dermal	80.769 mg/kg bw/day	Chronic effects systemic	ECHA

sulfamic acid				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	70.5 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	10 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Inhalation	17.4 mg/m ³	Chronic effects systemic	ECHA
Consumers	Dermal	5 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	5 mg/kg bw/day	Chronic effects systemic	ECHA

PNEC

formic acid ... %		
Route of exposure	Value	Source
Freshwater environment	2 mg/l	ECHA
Water (intermittent release)	1 mg/l	ECHA
Marine water	200 µg/l	ECHA
Seawater (intermittent release)	-	ECHA
Microorganisms in sewage treatment	7.2 mg/l	ECHA
Freshwater sediment	13.4 mg/kg of dry substance of sediment	ECHA
Sea sediments	1.34 mg/kg of dry substance of sediment	ECHA

Glycollic acid		
Route of exposure	Value	Source
Freshwater environment	-	ECHA
Water (intermittent release)	-	ECHA
Marine water	-	ECHA
Seawater (intermittent release)	-	ECHA
Microorganisms in sewage treatment	2.67 mg/l	ECHA
Freshwater sediment	-	ECHA
Sea sediments	-	ECHA

sulfamic acid		
Route of exposure	Value	Source
Freshwater environment	1.8 mg/l	ECHA
Water (intermittent release)	480 µg/l	ECHA
Marine water	180 µg/l	ECHA

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sulfamic acid		
Route of exposure	Value	Source
Seawater (intermittent release)	-	ECHA
Microorganisms in sewage treatment	20 mg/l	ECHA
Freshwater sediment	8.36 mg/kg of dry substance of sediment	ECHA
Sea sediments	840 µg/kg of dry substance	ECHA

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
color intensity	transparent
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	0-0.5 (100% solution at 20-25 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.1-1.11 g/cm ³ at 20-25 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2. Chemical stability

Stable under normal storage and use conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4. Conditions to avoid

None known under normal storage and use conditions.

10.5. Incompatible materials

Reacts with alkali, metals. Keep away from products containing chlorine-based bleaching agents.

10.6. Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity

Mixture is not classified based on available information. Calculated oral acute toxicity of mixture is > 2000 mg/kg (rat).

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation (vapor)	ATE	4400 mg/l				Calculation of value	

formic acid ... %							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	730 mg/kg bw		Rat			ECHA
Inhalation	LC ₅₀	7.85 mg/l of air	4 hours	Rat			ECHA
Inhalation (vapor)	ATE	7.4 mg/l					
Oral	ATE	500 mg/kg bw					

Glycollic acid							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	2040 mg/kg bw		Rat			ECHA
Inhalation	LC ₅₀	3.6-5.2 mg/l of air	4 hours	Rat			ECHA

sulfamic acid							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	2065-2140 mg/kg bw		Rat			ECHA
Dermal	LD ₅₀	2000 mg/kg bw		Rat			ECHA

sulphuric acid ... %							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀	600 mg/kg	8 hours	Mouse			ECHA

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Skin corrosion/irritation

Causes severe skin burns and eye damage.

formic acid ... %				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

Glycollic acid				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

sulfamic acid				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Irritating			ECHA

sulphuric acid ... %				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

formic acid ... %				
Route of exposure	Result	Exposure time	Species	Source
Eye	Irritating			ECHA

Glycollic acid				
Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

sulfamic acid				
Route of exposure	Result	Exposure time	Species	Source
Eye	Irritating			ECHA

sulphuric acid ... %				
Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

Respiratory or skin sensitisation

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

formic acid ... %						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Not sensitizing	OECD 406		Guinea-pig		SDL
Inhalation	Indeterminate					

Glycollic acid						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Not sensitizing					ECHA

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Glycollic acid						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Inhalation	Not sensitizing					SDL

sulfamic acid						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Indeterminate					
Inhalation	Indeterminate					

sulphuric acid ... %						
Route of exposure	Result	Method	Exposure time	Species	Sex	Source
Dermal	Not sensitizing					ECHA
Inhalation	Not sensitizing					ECHA

Germ cell mutagenicity

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

formic acid ... %					
Result	Exposure time	Specific target organ	Species	Sex	Source
Indeterminate					ECHA

Glycollic acid					
Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

sulfamic acid					
Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

sulphuric acid ... %					
Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					SDL

Carcinogenicity

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

formic acid ... %						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

Glycollic acid						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

sulfamic acid						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			

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sulphuric acid ... %

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

Reproductive toxicity

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

formic acid ... %

Effect	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			ECHA

Glycollic acid

Effect	Parameter	Value	Result	Species	Sex	Source
Effects on fertility		600 mg/kg bw/day	No effect	Rat		ECHA
Developmental toxicity	NOAEL	2000 mg/kg bw/day	No effect	Rabbit		ECHA

sulfamic acid

Effect	Parameter	Value	Result	Species	Sex	Source
Effects on fertility	NOAEL	150 mg/kg bw/day	No effect	Rat		ECHA
Developmental toxicity	NOAEL	200 mg/kg bw/day	No effect	Rat		ECHA

sulphuric acid ... %

Effect	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

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

formic acid ... %

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	400 mg/kg bw/day		Rat		ECHA
Oral	LOAEL	2000 mg/kg bw/day		Rat		ECHA
	NOAEC	244 mg/m ³ of air		Rat		ECHA

Glycollic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	150 mg/kg bw/day	Negative	Rat		ECHA
Inhalation	NOAEC	230 mg/m ³	Negative	Rat		ECHA

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sulfamic acid						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	500-1004 mg/kg bw/day	No effect	Rat		ECHA
Oral	NOAEL	10000 ppm	No effect	Rat		ECHA

sulphuric acid ... %						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Inhalation	LOAEC	0.3 mg/m ³ of air	No effect	Rat		ECHA

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

May cause long lasting harmful effects to aquatic life.

Acute toxicity

formic acid ... %					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	130-1720 mg/l	4 days	Fish		ECHA
LC ₀	1 g/l	4 days	Fish		ECHA
LC ₁₀₀	180-3200 mg/l	4 days	Fish		ECHA
EC ₅₀	365-540 mg/l	48 hours	Aquatic invertebrates		ECHA
LC ₅₀	1.308 g/l	4 days	Aquatic invertebrates		ECHA
EC ₁₀₀	720 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	1.24 g/l	72 hours	Algae		ECHA
NOEC	76.8 mg/l	72 hours	Algae		ECHA
NOEC	72 mg/l	13 days	Microorganisms		ECHA

Glycollic acid					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	100 mg/l	4 days	Fish		ECHA
EC ₅₀	100 mg/l	48 hours	Aquatic invertebrates		ECHA
NOEC	100 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	95.3-100 mg/l	72 hours	Algae		ECHA
NOEC	95.3-100 mg/l	72 hours	Algae		ECHA
EC ₅₀	266.6-386.6 mg/l	3 hours	Aquatic microorganisms		ECHA
NOEC	100 mg/l	3 hours	Aquatic microorganisms		ECHA

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sulfamic acid					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	70.3 mg/l	4 days	Fish		ECHA
EC ₅₀	71.6 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	33.8-48 mg/l	72 hours	Algae (<i>Selenastrum capricornutum</i>)		ECHA
EC ₅₀	200 mg/l	3 hours	Microorganisms		ECHA

sulphuric acid ... %					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	16-28 mg/l	4 days	Fish		ECHA
EC ₅₀	100 mg/l	48 hours	Aquatic invertebrates		ECHA

Chronic toxicity

formic acid ... %					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	100 mg/l	21 days	Aquatic invertebrates		ECHA

Glycollic acid					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	89.6 mg/l	21 days	Aquatic invertebrates		ECHA
EC ₅₀	89.6 mg/l	21 days	Aquatic invertebrates		ECHA

sulfamic acid					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	25 µg/l	65 days	Fish		ECHA
NOEC	60 mg/l	34 days	Fish		ECHA
NOEC	150 µg/l	35 days	Aquatic invertebrates		ECHA
NOEC	19 mg/l	21 days	Aquatic invertebrates		ECHA
NOEC	18 mg/l	72 hours	Algae		ECHA

sulphuric acid ... %					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	310 µg/l	7.1 months	Fish		ECHA
NOEC	26 g/l	37 days	Microorganisms		ECHA

12.2. Persistence and degradability

Based on the chemical information, it can be stated that mixture is biodegradable.

Biodegradability

formic acid ... %					
Parameter	Value	Exposure time	Environment	Result	Source
	100 %			Easily biodegradable	ECHA

Glycollic acid					
Parameter	Value	Exposure time	Environment	Result	Source
	100 %		Fresh water	Easily biodegradable	ECHA

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sulfamic acid					
Parameter	Value	Exposure time	Environment	Result	Source
	-				

sulphuric acid ... %					
Parameter	Value	Exposure time	Environment	Result	Source
				Persistent	SDL

12.3. Bioaccumulative potential

No bioaccumulation expected.

formic acid ... %						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	-					ECHA

Glycollic acid						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	-					ECHA

sulfamic acid						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	-					

sulphuric acid ... %						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	0					SDL

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

formic acid ... %				
Parameter	Value	Temperature	Result	Source
Koc	31	20°C		ECHA

Glycollic acid				
Parameter	Value	Temperature	Result	Source
	0 Pa.m ³ /mol	20°C		ECHA

sulfamic acid				
Parameter	Value	Temperature	Result	Source
	-			

sulphuric acid ... %				
Parameter	Value	Temperature	Result	Source
Koc	1	20°C	High, Hydrolytically unstable	ECHA

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12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

06 01 06* other acids
 11 01 05* pickling acids
 07 06 00 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

Packaging waste type code

20 01 29* detergents containing hazardous substances
 20 01 30 detergents other than those mentioned in 20 01 29
 (*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 3264

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

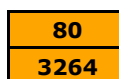
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



C1

8





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Tunnel restriction code (E)

Air transport - ICAO/IATA

Cargo packaging instructions 856

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products, as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Product contains regulated explosives precursor: Making available, introduction, possession and use of those precursors by member of the general public according to Regulation (EU) 2019/1148, Article 5 to 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe dust/mist.
P264	Wash face, hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road

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Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₁₀₀	Concentration of a substance when it is affected 100 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₁₀₀	Lethal concentration of a substance in which it can be expected death of 100% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
Met. Corr.	Corrosive to metals
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

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Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.