

A Solenis Company

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Divosan BG

Revision: 2024-03-20 Version: 05.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Divosan BG

UFI: 52D5-Q0RJ-M00X-XQFA

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

Surface disinfectant. Product use:

Cleaning in place chemical.

Descaling agent.

for food contact surface disinfection For professional and industrial use only.

Uses other than those identified are not recommended. Uses advised against:

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8b_1 AISE_SWED_IS_8b_1 AISE_SWED_PW_1_1 AISE_SWED_PW_4_2 AISE_SWED_IS_1_1 AISE_SWED_IS_4_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion, Category 1A (H314) EUH071 Serious eye damage, Category 1 (H318)

Corrosive to metals, Category 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains nitric acid (Nitric Acid), glycolic acid (Glycolic Acid)

Hazard statements:

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

EUH071 - Corrosive to the respiratory tract.

Precautionary statements:

P260 - Do not breathe vapours.

P280 - Wear protective gloves, protective clothing and eye or 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 CENTRE, doctor or physician.

2.3 Other hazards

Regulation (EU) 2019/1148 - restricted explosives precursor.

Regulated explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
nitric acid	231-714-2	7697-37-2	7-23	Oxidising liquids, Category 3 (H272) Acute toxicity - Inhalation, Category 3 (H331) Skin corrosion, Category 1A (H314) EUH071 Corrosive to metals, Category 1 (H290)		30-50
glycolic acid	201-180-5	79-14-1	''	Skin corrosion, Category 1B (H314) Acute toxicity - Inhalation, Category 4 (H332) Serious eye damage, Category 1 (H318)		3-10

Specific concentration limits

nitric acid

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information: If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is

irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose

resuscitation. Use Ambu bag or ventilator.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTRE, doctor or physician.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off

immediately all contaminated clothing and wash it before reuse. Immediately call a POISON

CENTRE, doctor or physician.

Eye contact: 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. Immediately call a POISON CENTRE,

doctor or physician.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or

physician.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Corrosive to the respiratory tract.

Skin contact: Causes severe burns.

Eye contact: Causes severe or permanent damage.

Ingestion: Ingestion will lead to a strong caustic 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

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

[•] Skin corrosion, Category 1A (H314) >= 20% > Skin corrosion, Category 1B (H314) >= 5% > Skin irritation, Category 2 (H315) >= 1%

5.2 Special hazards arising from the substance or mixture

No special hazards known.

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. Wear eye/face protection. Wear suitable gloves.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 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 unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing. Keep cool. Keep away from heat and direct sunlight.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
nitric acid		1 ppm 2.6 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
nitric acid	-	-	-	-
glycolic acid	-	-	-	0.75

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
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	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
nitric acid	-	-	-	-
glycolic acid	-	-	-	57.69

DNEL/DMEL dermal exposure - Consumer

BIVEE/BIVIEE definal exposure Consumer				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
nitric acid	-	-	-	-
glycolic acid	-	-	-	28.85

DNEL/DMEL inhalatory exposure - Worker (mg/m3)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
nitric acid	ı	-	2.6	-
glycolic acid	9.2	9.2	1.53	10.56

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
nitric acid	-	-	1.3	-
glycolic acid	-	2.3	2.3	2.6

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
nitric acid	-	-	-	-
glycolic acid	0.0312	0.0031	0.312	7

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
nitric acid	-	-	-	-
glycolic acid	0.115	0.0115	0.007	-

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin

contact, the personal protection equipment as described in this section is not required.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

Personal protective equipment Eye / face protection:

Hand protection:

Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur. Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material

thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may

be chosen.

Body protection: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN 14605).

Respiratory protection: No special requirements under normal use conditions.

Should not reach sewage water or drainage ditch undiluted or unneutralised. **Environmental exposure controls:**

Recommended safety measures for handling the _diluted _product:

Recommended maximum concentration (% w/w): 3

No special requirements under normal use conditions. Appropriate engineering controls:

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	480	ERC8a
Automatic application in a dedicated system	AISE SWED PW 4 2	PW	PROC 4	480	ERC8a

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions

regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific

local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may

be chosen.

Body protection: No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical state: Liquid Colour: Clear , Colourless Odour: Product specific Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined

Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
nitric acid	116	Method not given	
glycolic acid	112	Method not given	1013

Method / remark

closed cup

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.
Flash point (°C): > 100 °C

Sustained combustion: Not applicable.

(UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

pH: =< 2 (neat) Dilution pH: < 2 (3%)

Kinematic viscosity: Not determined

Solubility in / Miscibility with water: Fully miscible

ISO 4316 ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
nitric acid	> 500	Method not given	
glycolic acid	> 300	Method not given	22

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
nitric acid	770	Method not given	20
glycolic acid	0.41	Method not given	25

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

Relative density: ≈ 1.32 (20 °C) Relative vapour density: No data available. Particle characteristics: No data available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Corrosive

9.2.2 Other safety characteristics

Acid reserve: ≈ -25.3 (g NaOH / 100g; pH=4)

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

May be corrosive to metals. Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

10.6 Hazardous decomposition products

Nitrogen oxides (NOx).

SECTION 11: Toxicological information

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

Mixture data: .

Acute inhalation toxicity

LC50 (Vapour) (mist) Species Not applicable Method Weight of evidence

Relevant calculated ATE(s): ATE - Oral (mg/kg): >2000

ATE - Inhalatory, mists (mg/l): >1

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)

Endpoint Value Species Method Exposure ATE Oral

		(mg/kg)			time (h)	(mg/kg)
nitric acid		No data				Not established
		available				
glycolic acid	LD 50	2040	Rat	EPA OPP 81-1		2040

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
nitric acid		No data				Not established
		available				
glycolic acid		No data				Not established
		available				

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid	LC 50	> 2.65 (vapour)	Rat	OECD 403 (EU B.2)	
glycolic acid	LC 50	3.6 (mist) (dust)	Rat	OECD 403 (EU B.2)	4

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
nitric acid	Not established	Not established	2.65	Not established
glycolic acid	Not established	3.6	Not established	Not established

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
nitric acid	Corrosive	Rabbit	Method not given	
glycolic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
nitric acid	Corrosive		Method not given	
glycolic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

	Ingredient(s)	Result	Species	Method	Exposure time
	nitric acid	No data available			
	glycolic acid	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
nitric acid	No data available			
glycolic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

	Ingredient(s)	Result	Species	Method	Exposure time
	nitric acid	No data available			
ĺ	glycolic acid	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
0,	test results		evidence of genotoxicity, negative test	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
nitric acid	No evidence for carcinogenicity, negative test results
glycolic acid	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
nitric acid	NOAEL	Developmental toxicity	1500	Rat	OECD 422, oral	28 day(s)	Not toxic for reproduction
glycolic acid			No data available				No evidence for reproductive toxicity

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
nitric acid	NOAEL	1500	Rat	OECD 422,	28	
				oral		
glycolic acid	NOAEL	150	Rat	OECD 408 (EU	90	No adverse effects observed
	LOAEL	300		B.26)		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
nitric acid		No data available				
glycolic acid		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
nitric acid		No data				
		available				
glycolic acid		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
nitric acid			No data available					
glycolic acid			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
nitric acid	No data available
glycolic acid	No data available

STOT-repeated exposure

OTOT-Tepeated exposure							
	Ingredient(s)	Affected organ(s)					
	nitric acid	No data available					
	glycolic acid	No data available					

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid	LC 50	12.5	Gambusia affinis	Method not given	96
glycolic acid	LC 50	114.8	Pimephales promelas	Method not given	96

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid	EC 50	8609	Daphnia magna Straus	Non guideline test	24
glycolic acid	EC 50	99.6	Daphnia magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid		No data available			
glycolic acid	Er C 50	31.2	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
nitric acid		No data			
		available			
glycolic acid		No data			
		available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
nitric acid		No data			
		available			
glycolic acid		No data			
		available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
nitric acid	LD 50	8226	Oncorhynchus	Method not	96 hour(s)	
			mykiss	given		
glycolic acid		No data				
		available				

Aquatic long-term toxicity - crustacea

Aquatic long-term toxicity - crustacea						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
nitric acid		No data				
		available				
glycolic acid		No data				
· ·		available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
nitric acid		No data				
		available				
glycolic acid		No data				
		available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

refrestrial toxicity - soil invertebrates, including earthworms, if available:									
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed			
g(-)		(mg/kg dw soil)	- Cprossion		time (days)				
		SOII)							
nitric acid		No data							

				available				
rrestrial toxicity	- plants, if available:							
,	Ingredient(s)		Endpoint	Value (mg/kg dw soil)	Specie	es Method	Exposure time (days)	Effects observed
	nitric acid			No data available				
				aranazio				
rrestrial toxicity -	- birds, if available: Ingredient(s)		Endpoint	Value	Specie	es Method	Exposure	Effects observed
	nitric acid			No data			time (days)	
				available				
rrestrial toxicity	- beneficial insects, if av	ailable:						
	Ingredient(s)		Endpoint	Value (mg/kg dw soil)	Specie	es Method	Exposure time (days)	Effects observed
	nitric acid			No data available				
rrestrial toxicity -	- soil bacteria, if available Ingredient(s)	le:	Endpoint	Value (mg/kg dw	Specie	es Method	Exposure time (days)	Effects observed
	nitric acid			soil) No data				
				available				
iotic degrada								
	n - photodegradation in a		le: Half-life time	Met	hod	Evalua	ation	Remark
	nitric acid	No	data available					
	n - hydrolysis, if availabl ngredient(s)		life time in frewater	sh Met	hod	Evalua	ation	Remark
		Half-			hod	Evalua	ation	Remark
lr.	ngredient(s) nitric acid	Half- No	water		hod	Evalua	ation	Remark
lr.	ngredient(s) nitric acid n - other processes, if av	Half-No	water		hod	Evaluation	ation	Remark Remark
lı iotic degradatior	ngredient(s) nitric acid n - other processes, if av	/ailable:	water o data available		hod		ation	
iotic degradatior Ingredient(s) nitric acid	nitric acid n - other processes, if av Type	vailable: Half-l No data	water o data available		hod		ation	
iotic degradatior Ingredient(s) nitric acid	nitric acid n - other processes, if av Type	vailable: Half-l No data	water o data available	Method	/tical		Method	
iotic degradatior Ingredient(s) nitric acid	nitric acid n - other processes, if ax Type n billity - aerobic condition	vailable: Half-l No data	water o data available ife time a available	Method	/tical	Evaluation		Remark Evaluation
iotic degradatior Ingredient(s) nitric acid	nitric acid n - other processes, if av Type Type bility - aerobic condition Ingredient(s)	vailable: Half-l No data	water o data available ife time a available	Method Analymeti	rtical nod	Evaluation		Remark Evaluation Not applicable (inorganic
iotic degradatior Ingredient(s) nitric acid odegradation ady biodegradal	nitric acid n - other processes, if an Type n bility - aerobic condition Ingredient(s) nitric acid glycolic acid	/ailable: Half- No Alf- No data	water o data available ife time a available Inoculum Activated slucaerobe	Method Analymeti	rtical nod	Evaluation DT 50	Method	Remark Evaluation Not applicable (inorganic substance)
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nitric acid	No data available			
glycolic acid	3.162	QSAR	Low potential for bioaccumulation	

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
nitric acid	No data available				Mobile in aqueous environment
glycolic acid	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue: 20 01 14* - acids.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: 2031

14.2 UN proper shipping name:

Nitric acid , solution

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: ||

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C1 Tunnel restriction code: (E) Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

National regulations:

- Control of Poisons and Explosives Precursors Regulations 2015
 Regulation (EC) 1907/2006 REACH (UK amended)
- Regulation (EC) 1272/2008 CLP (UK amended)
- Regulation (EC) 648/2004 Detergents regulation (UK amended)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to Detergents Regulation

Not applicable

Comah - classification: Not classified

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MSDS5188 Version: 05.0 Revision: 2024-03-20

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 4, 8, 16

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- · AISE The international Association for Soaps, Detergents and Maintenance Products
- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- \bullet EC50 effective concentration, 50%
- ERC Environmental release categories
- EUH CLP Specific hazard statement
- LC50 Lethal Concentration, 50% / Median Lethal Concentration
- · LCS Life cycle stage
- · LD50 Lethal Dose, 50% / Median Lethal dose
- · NOAEL No observed adverse effect level
- NOEL No observed effect level
- OECD Organisation for Economic Cooperation and Development
- · PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- PROC Process categories
- REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
- · H272 May intensify fire; oxidiser.
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- · H332 Harmful if inhaled.
- H402 Harmful to aquatic life.
- EUH071 Corrosive to the respiratory tract.

End of Safety Data Sheet