

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

**Pascal VA5** 

Revision: 2023-02-24

Version: 09.1

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

# 1.1 Product identifier

Trade name: Pascal VA5

UFI: 6K94-A0JR-500X-YK65

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against Product use: Cleaning in place chemical.

Descaling agent. For industrial use only.. Uses other than those identified are not recommended.

# Uses advised against:

 $\begin{array}{l} \textbf{SWED - Sector-specific worker exposure description:} \\ AISE_SWED_PW_8a_1 \\ AISE_SWED_IS_1_1 \\ AISE_SWED_IS_8b_1 \\ AISE_SWED_IS_1_1 \\ AISE_SWED_IS_4_1 \\ AISE_SWED_IS_7_5 \\ AISE_SWED_IS_13_3 \end{array}$ 

**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 Corr. 1A (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)

### 2.2 Label elements



Signal word: Danger.

Contains nitric acid (Nitric Acid)

#### Hazard statements:

H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage.

#### **Precautionary statements:**

P280 - Wear protective gloves, protective clothing and eye or face protection.

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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.

# **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	01-2119487297-23	Ox. Liq. 3 (H272) Acute Tox. 3 (H331) Skin Corr. 1A (H314) EUH071 Met. Corr. 1 (H290)		30-50

#### Specific concentration limits

nitric acid:

• Skin Corr. 1A (H314) >= 20% > Skin Corr. 1B (H314) >= 5% > Skin Irrit. 2 (H315) >= 1%

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

ATE, if available, are listed in section 11.

SECTION 4: First aid measures

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

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. Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Wash skin with
	plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it
	before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get
	medical advice or attention.
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
5	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.
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4.2 Most important symptoms and eff	fects, both acute and delayed
Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes severe burns.
Eye contact:	Causes severe or permanent damage.

**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.

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Ingestion:

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

oesophagus and stomach.

# 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. Do not breathe spray. 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 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 <sup>3</sup>

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

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

DNEL/DMEL dermal exposure - Worker

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	-	-	-	-

#### DNEL/DMEL dermal 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	-	-	-	-

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

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

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

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

# 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	-	-	-	-

Environmental exposure - PNEC, continued				
Ingredient(s)	Sediment, freshwater	Sediment, marine	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
	(mg/kg)	(mg/kg)		
nitric acid	-	-	-	-

# 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:

# Appropriate organisational 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. 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 application in a dedicated closed system	AISE_SWED_IS_1_1	IS	PROC 1	480	ERC4
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a

# Personal protective equipment

Personal protective equipment	
Eye / face protection:	Safety glasses or goggles (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.
Hand protection:	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:	If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised

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

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

Recommended maximum concentration (% w/w): 20

Appropriate engineering controls:	Provide a good standard of general ventilation.
Appropriate organisational controls:	Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to
	consider national Occupational Exposure Limits or other equivalent values, if available.

# 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
Manual application by dipping, soaking, pouring	AISE_SWED_IS_13_3	IS	PROC 13	240	ERC4
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Spray application	AISE_SWED_IS_7_5	IS	PROC 7	480	ERC4

# Personal protective equipment

Personal protective equipment	
Eye / face protection:	Goggles (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.
Hand protection:	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:	If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.
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

Physical state: Liquid Colour: Clear , Colourless Odour: Product specific Odour threshold: Not applicable Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product See substance data

.

Method / remark

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
nitric acid	116	Method not given	
	Method / rem	ark	
Flammability (solid, gas): Not applicable to liquids Flammability (liquid): Not flammable. Flash point (°C): > 100 °C	closed cup		
Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	0.0004.04p		
Lower and upper explosion limit/flammability limit (%): Not determined			
Substance data, flammability or explosive limits, if available:			
	Method / rem	ark	
Autoignition temperature: Not determined Decomposition temperature: Not applicable.			
<b>pH:</b> =< 2 (neat)	ISO 4316		
Dilution pH: < 2 (20 %) Kinematic viscosity: Not determined	ISO 4316		
Solubility in / Miscibility with water: Fully miscible			

Substance data, solubility in water

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

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

#### Vapour pressure: Not determined

Substance	data	VODOUR	proceuro
Substance	uala.	vapour	DIESSUIE

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

Relative density: ≈ 1.31 (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 classesExplosive properties: Not explosive.Oxidising properties: Not oxidising.Corrosion to metals: Corrosive

### 9.2.2 Other safety characteristics

Acid reserve: ≈ -24.5 (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) Specie

Species Not applicable

Method OECD 403 (EU B.2)

# 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 (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
nitric acid		No data				Not established
		available				

#### Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (h)	ATE
		(mg/kg)			time (n)	(mg/kg)

# Method / remark

Method / remark See substance data

OECD 109 (EU A.3) Not relevant to classification of this product Not applicable to liquids.

affected

nitric acid	No data available		Not established
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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)	

Acute inhalative toxicity, continued

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

#### Irritation and corrosivity Skin irritation

Skin initiation and consisting								
Ingredient(s)	Result	Species	Method	Exposure time				
nitric acid	Corrosive	Rabbit	Method not given					

Fve	irritation	and	corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
nitric acid	Corrosive		Method not given	

Respiratory tract irritation and corrosivity
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Ingredient(s)		Result	Species	Method	Exposure time	
	nitric acid	1	No data available			

# Sensitisation

Sensitisation by skin contact					
li li	ngredient(s)	Result	Species	Method	Exposure time (h)
	nitric acid	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
nitric 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)
nitric acid	No evidence for mutagenicity, negative	OECD 471 (EU	No data available	
	test results	B.12/13)		1

Carcinogenicity

Ingredient(s)	Effect
nitric acid	No evidence for carcinogenicity, negative test results

# Toxicity for reproduction

Ingredient(s) Enc	dpoint S	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
nitric acid NO	OAEL Deve	elopmental toxicity	1500	Rat	OECD 422, oral	28 day(s)	Not toxic for reproduction

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

Value Specific effects and organs Ingredient(s) Endpoint Species Method Exposure (mg/kg bw/d) time (days) nitric acid NOAEL 1500 Rat OECD 422, 28

#### Sub-chronic dermal toxicity

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

oral

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				
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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					

### STOT-single exposure

Ingre	dient(s)	Affected organ(s)
nitr	ic acid	No data available

# STOT-repeated exposure

Ingredient(s)	Affected organ(s)	
nitric 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 fic

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

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid	EC 50	8609	Daphnia magna Straus	Non guideline test	24

Aquatic short-term toxicity - algae					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
nitric acid		No data available			

# Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
nitric 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			

Aquatic long-term toxicity Aquatic long-term toxicity - fish

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
nitric acid	LD 50	8226	Oncorhynchus mykiss	Method not given	96 hour(s)	

Aquatic long-term toxicity - crustacea

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

# **Terrestrial toxicity**

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

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

#### Terrestrial toxicity - plants, if available:

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

### Terrestrial toxicity - birds, if available:

l	ngredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
	nitric acid		No data available				

Terrestrial toxicity - beneficial insects, if available:

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

# Terrestrial toxicity - soil bacteria, if available:

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

# 12.2 Persistence and degradability

# Abiotic degradation

	Abiotic degradation Abiotic degradation - photodegradation in air, if available:								
1	Ingredient(s) Half-life time Method Evaluation Remark								
	nitric acid	No data available							

# Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
nitric acid	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
nitric acid		No data available			

# Biodegradation

Ready biodegradability - aerobic conditions					
Ingredient(s)	Inoculum	Analytical	DT 50	Method	Evaluation

	method		
nitric acid			Not applicable (inorganic
			substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
nitric acid					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
nitric acid					No data available

# **12.3 Bioaccumulative potential**

 altition coefficient n-octanol/water (log r				
Ingredient(s)	Value	Method	Evaluation	Remark
nitric acid	-2.3	J	Not relevant, does not	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
nitric acid	No data available				

#### 12.4 Mobility in soil

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

# 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:

**European Waste Catalogue:** 

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. 20 01 14\* - acids.

Empty packaging Recommendation: Suitable cleaning agents:

Dispose of observing national or local regulations. 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: II

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 :

Regulation (EC) 1907/2006 - REACH (UK amended)
 Regulation (EC) 1272/2008 - CLP (UK amended)

• Regulation (EC) 648/2004 - Detergents regulation (UK amended)

Control of Poisons and Explosives Precursors Regulations 2015

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: MSDS2147

Version: 09.1

Revision: 2023-02-24

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 11

# **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.

# Full text of the H and EUH phrases mentioned in section 3:

• 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.

• EUH071 - Corrosive to the respiratory tract.

# Abbreviations and acronyms:

· AISE - The international Association for Soaps, Detergents and Maintenance Products

- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
- 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

# End of Safety Data Sheet