

WM 0714016	Order number: 0714016	
Version 2.0	Revision Date 31.10.2019	Print Date 23.01.2020

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

#### 1.1 Product identifier

Trade name	: APESIN AP 100 PLUS
Identification number	: 40000275

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

Use of the Substance/Mixture	: Biocidal product

Restricted to professional users.

### 1.3 Details of the supplier of the safety data sheet

Company	: tana Chemie GmbH
	Rheinallee 96
	55120 Mainz
Telephone	: +49613196403
Telefax	: +4961319642414
E-mail address	: Produktsicherheit@werner-mertz.com
Responsible/issuing person	
Contact person	: Product development / product safety

### 1.4 Emergency telephone number

112

+49(0)6131-19240

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





WM 0714016		Order number:	0714016
Version 2.0		Revision Date 31	.10.2019 Print Date 23.01.2020
Signal word	:	Danger	
Hazard statements	:	H314 H412	Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P303 + P361 + P353	Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: pentapotassium bis(peroxymonosulphate) bis(sulphate) dipotassium peroxodisulphate

### Additional Labelling:

Safety data sheet available on request. EUH208 Contains dipotassium peroxodisulphate. May produce an allergic reaction.

## 2.3 Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Chemical nature	: Formulated product	
Hazardous components		
Chemical name	CAS-No.	Classification

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Registration number		



0714016	Order number: 07140	16	
sion 2.0	Revision Date 31.10.20	19	Print Date 23.01.2020
pentapotassium bis(peroxymonosulphate) bis(sulphate)	70693-62-8 274-778-7	Skin Corr. 1B; H314 Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 40 - < 50
sodium dodecyl sulphate	151-21-3 205-788-1	Eye Dam. 1; H318 Acute Tox. 4; H302 Skin Irrit. 2; H315 SCL 10 - < 20 % 2; H319 >= 20 % 1; H318	>= 10 - < 15
(+)-tartaric acid	87-69-4 201-766-0 01-2119537204-47	Eye Dam. 1; H318	>= 10 - < 15
sodium benzoate	532-32-1 208-534-8 01-2119460683-35	Eye Irrit. 2; H319	>= 10 - < 15
Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated	78330-20-8 02-2119549526-31	Eye Dam. 1; H318 Acute Tox. 4; H302 SCL 1 - 10 % 2; H319 > 10 % 1; H318	>= 3 - < 5
sodium carbonate	497-19-8 207-838-8 01-2119485498-19	Eye Irrit. 2; H319	>= 2 - < 5
dipotassium peroxodisulphate	7727-21-1 231-781-8	Ox. Sol. 3; H272 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H317 Skin Sens. 1; H317 STOT SE 3; H335	>= 0 - < 1

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice

: Move out of dangerous area. Consult a physician.



M 0714016	Order number: 07140	016	
ersion 2.0	Revision Date 31.10.20	019 Print Date 23.01.20	
	Show this safety data shee	et to the doctor in attendance.	
If inhaled	: Move to fresh air. Consult a physician after s	significant exposure.	
In case of skin contact	Wash off with soap and ple Immediate medical treatme	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.	
In case of eye contact	damage and blindness. Protect unharmed eye.		
	Small amounts splashed in damage and blindness. Protect unharmed eye. Continue rinsing eyes durir	nto eyes can cause irreversible tissue ing transport to hospital.	
If swallowed	Do NOT induce vomiting. Do not give milk or alcohol	outh to an unconscious person.	
.2 Most important symptoms and	ffects, both acute and delayed	d	
Symptoms	: corrosive effects		
Risks	: No information available.	: No information available.	
.3 Indication of any immediate me	lical attention and special trea	atment needed	
Treatment	: For specialist advice physic Information Service.	icians should contact the Poisons	

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2 Special hazards arising from the s	suk	ostance or mixture
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known



APESIN AP 100 PL	US	
WM 0714016	Order number: 0714016	
Version 2.0	Revision Date 31.10.2019	Print Date 23.01.2020

### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
6.2 Environmental precautions		
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.
		Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: Neutralize with chalk, alkali solution or ammonia.
	Pick up and arrange disposal without creating dust.
	Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling	<ul> <li>Avoid contact with skin and eyes. For person</li> <li>8. Smoking, eating and drinking should be pre application area. Dispose of rinse water in ac national regulations.</li> </ul>	phibited in the
Advice on protection again	e : Avoid dust formation. Provide appropriate exl	naust ventilation at



WM 0714016		Order number: 0714016	
Version 2.0		Revision Date 31.10.2019	Print Date 23.01.2020
and explosion		places where dust is formed.	
Hygiene measures	:	Handle in accordance with good industrial hygie practice. Wash hands before breaks and at the	2
		Handle in accordance with good industrial hygie practice. When using do not eat or drink. When Wash hands before breaks and at the end of wo	using do not smoke.
7.2 Conditions for safe storage, inclu	ıdi	ng any incompatibilities	
Requirements for storage areas and containers	:	Store in original container. Store in cool place. S temperature in the original container.	Store at room
Other data	:	No decomposition if stored and applied as direct	ted.
7.3 Specific end use(s)			
Specific use(s)	:	Biocidal product	

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL	
(+)-tartaric acid 87-69-4:	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 8,1 mg/kg
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 1,5 mg/kg
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2,9 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 5,2 mg/m3
	End Use: Consumers Exposure routes: Inhalation



0714016	Order number: 0714016	
sion 2.0	Revision Date 31.10.2019	Print Date 23.01.202
	Potential health effects: Long-term syste Value: 1,3 mg/m3	mic effects
sodium benzoate : 532-32-1:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term syste Value: 34,7 mg/kg	mic effects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term local Value: 4,5 mg/cm2	effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term syste Value: 10,4 mg/m3	mic effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local Value: 6,3 mg/m3	effects
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term syste Value: 25 mg/kg	mic effects
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term syste Value: 2,1 mg/m3	mic effects
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term syste Value: 20,8 mg/kg	mic effects
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term local Value: 2,7 mg/cm2	effects
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local Value: 1,3 mg/m3	effects
sodium carbonate 497-19-8:	: End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local Value: 10 mg/m3	effects
	End Use: Consumers Exposure routes: Inhalation	



0714016	Order number: 0714016	
sion 2.0	Revision Date 31.10.2019	Print Date 23.01.20
	Potential health effects: Acute local effects Value: 10 mg/m3	
dipotassium peroxodisulphate 7727-21-1:	<ul> <li>End Use: Workers</li> <li>Exposure routes: Inhalation</li> <li>Potential health effects: Long-term systemic</li> <li>Value: 2,06 mg/m3</li> </ul>	c effects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effe Value: 590 mg/m3	ects
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effe Value: 2,06 mg/m3	ects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic Value: 18,2 mg/kg	c effects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effe Value: 400 mg/kg	ects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term local effe Value: 0,102 mg/cm2	ects
	End Use: Workers Exposure routes: Skin contact Potential health effects: Acute local effects Value: 2,248 mg/cm2	
PNEC		
pentapotassium bis(peroxymonosulphate) bis(sulphate) 70693-62-8:	: Fresh water Value: 0,022 mg/l	
	Marine water Value: 0,00222 mg/l	
	Fresh water sediment Value: 0,0782 mg/kg	
	Marine sediment Value: 0,00796 mg/kg	



0714016	Order number: 0714016	
sion 2.0	Revision Date 31.10.2019	Print Date 23.01.2020
	Value: 1 mg/kg	
	Sewage treatment plant Value: 108 mg/l	
	Intermittent use/release Value: 0,0109 mg/l	
	Oral Value: 44,44 mg/kg	
sodium dodecyl sulphate 151-21-3:	: Fresh water Value: 0,137 mg/l	
	Marine water Value: 0,0137 mg/l	
	Fresh water sediment Value: 4,82 mg/kg	
	Marine sediment Value: 0,482 mg/kg	
	Soil Value: 0,882 mg/kg	
	Intermittent use/release Value: 0,055 mg/l	
(+)-tartaric acid 87-69-4:	: Fresh water Value: 0,3125 mg/l	
	Marine water Value: 0,3125 mg/l	
	Fresh water sediment Value: 1,141 mg/kg	
	Marine sediment Value: 1,141 mg/kg	
	Soil Value: 0,0449 mg/kg	
	Sewage treatment plant Value: 10 mg/l	
sodium benzoate 532-32-1:	: Fresh water Value: 0,13 mg/l	
	Marine water Value: 0,013 mg/l	
	Intermittent use/release Value: 0,305 mg/l	



VM 0714016		Order number: 0714016	
ersion 2.0		Revision Date 31.10.2019	Print Date 23.01.202
dipotassium peroxodisulphate 7727-21-1:		Fresh water sediment Value: 1,76 mg/kg Marine sediment Value: 0,176 mg/kg Soil Value: 0,275 mg/kg Sewage treatment plant Value: 10 mg/l Fresh water Value: 0,0763 mg/l Marine water Value: 0,011 mg/l Fresh water sediment Value: 0,275 mg/kg Soil Value: 0,015 mg/kg Sewage treatment plant Value: 3,6 mg/l Intermittent use/release Value: 0,763 mg/l Marine sediment	
		Value: 0,0396 mg/kg	
2 Exposure controls			
Personal protective equipment			
Eye protection	:	If splashes are likely to occur, wear: Tightly fitting safety goggles	
		Tightly fitting safety goggles	
Hand protection			
Material	:	For prolonged or repeated contact use protective It is suggested the usage of chemical resistant g rubber or nitrile rubber category III according to B mm). As alternative, a different type of gloves might be to the recommendations of the producer, guaran	loves made of butyl EN 374-1: 2003 (0,4 e used if, accordingly
Glove thickness	:	protection. 0,4 mm	



**APESIN AP 100 PLUS** WM 0714016 Order number: 0714016 Version 2.0 Revision Date 31.10.2019 Print Date 23.01.2020 Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Remove and wash contaminated clothing before re-use. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Remove and wash contaminated clothing before re-use. No personal respiratory protective equipment normally required. Respiratory protection : Breathing apparatus only if aerosol or dust is formed. (in case of higher concentration) Recommended Filter type: ABEK-P3-filter Not required; except in case of aerosol formation. Recommended Filter type: ABEK-P3-filter Environmental exposure controls General advice : Do not flush into surface water or sanitary sewer system. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	: granular
Colour	: white
Odour	: characteristic
Odour Threshold	: No data available
рН	: ca. 4, Concentration: 5,00 g/l
Melting point/range	: No data available



WM 0714016	Order number: 0714016	
Version 2.0	Revision Date 31.10.2019	Print Date 23.01.2020
Boiling point/boiling range	: No information available.	
Flash point	: Not applicable	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Flammability (liquids)	: No data available	
Burning rate	: No data available	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Bulk density	: ca. 775 kg/m3	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: The product has been shown not to be Directive 67/548/EEC (Method A17, Ox	

### 9.2 Other information

none

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions

: Stable under recommended storage conditions., No decomposition if used as directed.



APESIN AP 100 PLUS			
WM 0714016		Order number: 0714016	
Version 2.0		Revision Date 31.10.2019	Print Date 23.01.2020
10.4 Conditions to avoid			
Conditions to avoid	:	Heat	
10.5 Incompatible materials			
Materials to avoid	:	No data available	
10.6 Hazardous decomposition prod	uct	s	
Hazardous decomposition	:	No hazardous decomposition products are know	n.
products Other information	:	No hazardous decomposition products are know	n.
SECTION 11: Toxicological inform	ma	tion	
11.1 Information on toxicological effe	ect	5	
Product			
Skin corrosion/irritation	:	Causes skin burns.	
		Extremely corrosive and destructive to tissue.	
Serious eye damage/eye irritation	:	Causes eye burns.	
		May cause irreversible eye damage.	
Respiratory or skin sensitisation	:	No data available	
Germ cell mutagenicity	:	Not Rated	
Carcinogenicity	:	Not Rated	
Reproductive toxicity	:	Not Rated	
STOT - single exposure	:	The substance or mixture is not classified as spe toxicant, single exposure.	cific target organ
STOT - repeated exposure	:	The substance or mixture is not classified as spe toxicant, repeated exposure.	ecific target organ
Aspiration toxicity	:	Not Rated	
Further information	:	No data available	

### <u>Components:</u> pentapotassium bis(peroxymonosulphate) bis(sulphate)



M 0714016	Order number: 0714016	
ersion 2.0	Revision Date 31.10.2019	Print Date 23.01.2020
70693-62-8: Germ cell mutagenicity		
Genotoxicity in vitro	: Method: OECD Test Guideline 471 In vitro tests did not show mutagenic effects	
sodium dodecyl sulphate 151-21-3:		
Acute oral toxicity	: LD50 Rat: 1.288 mg/kg	
Acute inhalation toxicity	: LC50 Rat: 3,9 mg/l	
Germ cell mutagenicity		
Genotoxicity in vitro	: Method: OECD Test Guideline 471 In vitro tests did not show mutagenic effects	
(+)-tartaric acid 87-69-4:		
Acute oral toxicity	: see user defined free text Rat: 7.500 mg/kg	
	LD50 Oral Rat, female: > 2.000 mg/kg Method: OECD Test Guideline 423	
Acute dermal toxicity	: LD50 Dermal Rat: > 2.000 mg/kg Method: OECD Test Guideline 402	
Skin corrosion/irritation	: Result: No skin irritation	
Serious eye damage/eye irritation	: Result: Causes serious eye damage. GLP: see user defined free text	
Teratogenicity	: Species: Rat 181 mg/kg	
Repeated dose toxicity	: Rat: NOAEL: 2.460 mg/kg	
	Application Route: Oral	
sodium benzoate   532-32-1:		
Acute oral toxicity	: LD50 Oral Rat: 3.140 mg/kg	
Acute inhalation toxicity	: LC50 Rat: 12,2 mg/l	
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2.000 mg/kg	



0714016	Order number: 0714016	
ion 2.0	Revision Date 31.10.2019	Print Date 23.01.20
Alcohols, C9 – C11 –iso-, C10 - 78330-20-8:	-rich, ethoxylated	
Acute oral toxicity	: LD50 Oral Rat: 500 - 2.000 mg/kg	
	LD50 Oral Rat: > 300 - 2.000 mg/k Method: OECD Test Guideline 401	g
Acute dermal toxicity	: LD50 Dermal Rat: > 2.000 mg/kg Method: OECD Test Guideline 402	
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404	
Serious eye damage/eye irritation	: Species: Rabbit Result: Irreversible effects on the end Method: OECD Test Guideline 405	ye
Respiratory or skin sensitisation	: Test Method: Maximisation Test Species: Guinea pig Result: Did not cause sensitisation Method: OECD Test Guideline 406	on laboratory animals.
sodium carbonate 497-19-8:		
Acute oral toxicity	: LD50 Rat: 2.800 mg/kg	
	LD50 Oral Rat: 4.090 mg/kg	
Acute inhalation toxicity	: LC50 Rat: 2,3 mg/l Exposure time: 2 h Method: OECD Test Guideline 403	
	LC50 Mouse: 1,2 mg/l Exposure time: 2 h	
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2.000 mg/kg	g
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404	
	: Species: Rabbit	



VM 0714016	Order number: 0714016	
ersion 2.0	Revision Date 31.10.2019	Print Date 23.01.2020
Respiratory or skin sensitisation	: Result: Not a skin sensitizer.	
dipotassium peroxodisulphate 7727-21-1:		
Acute oral toxicity	: LD50 Oral Rat: 742 mg/kg Method: OECD Test Guideline 401	
	Acute toxicity estimate : 500,0 mg/kg Method: Converted acute toxicity point estimate	
Acute inhalation toxicity	: LC50 Rat: 5,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	
Acute dermal toxicity	: LD50 Dermal Rat: > 2.000 mg/kg	

## **SECTION 12: Ecological information**

### 12.1 Toxicity

 TOXICITY		
Components:		
pentapotassium bis(peroxymonos 70693-62-8:	รเ	Ilphate) bis(sulphate)
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	ErC50 : > 1 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,222 mg/l Exposure time: 37 d Species: Cyprinodon variegatus (sheepshead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,267 mg/l Exposure time: 24 h Species: Daphnia (water flea)
sodium dodecyl sulphate 151-21-3:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 4,5 mg/l Exposure time: 96 h



0714016		Order number: 0714016	
ion 2.0		Revision Date 31.10.2019	Print Date 23.01.2020
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6 mg/l Exposure time: 48 h	
Toxicity to algae	:	IC50 (Desmodesmus subspicatus (green alg Exposure time: 72 h	ae)): 53 mg/l
Toxicity to bacteria	:	EC50 (Aliivibrio fischeri): 0,46 mg/l Exposure time: 30 min	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Species: Ceriodaphnia dubia (water flea)	
(+)-tartaric acid 87-69-4:			
Toxicity to fish	:	LC0 (Carassius auratus (goldfish)): 200 mg/l	
		LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 135 mg/l Exposure time: 24 h	
		EC50 (Daphnia magna (Water flea)): 93,31 n Exposure time: 48 h Method: OECD Test Guideline 202	ng/l
Toxicity to algae	:	EC50 (Selenastrum capricornutum): 51,4 mg Exposure time: 48 h Method: OECD Test Guideline 201	/I
		EC50 (Pseudokirchneriella subcapitata (gree Exposure time: 72 h Method: OECD Test Guideline 201	n algae)): 51,4 mg/l
sodium benzoate 532-32-1:			
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnov Exposure time: 96 h Method: OECD Test Guideline 203	v)): > 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 n Exposure time: 48 h Method: OECD Test Guideline 202	ng/l
		NOEC (Daphnia magna (Water flea)): 51 mg Exposure time: 21 d Method: OECD Test Guideline 211	/1
Toxicity to algae	:	(Chlorella vulgaris (Fresh water algae)): > 10 Exposure time: 72 h Method: OECD Test Guideline 201	00 mg/l



0714016		Order number: 0714016	
sion 2.0		Revision Date 31.10.2019	Print Date 23.01.202
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: see user defined free text	
Alcohols, C9 – C11 –iso-, C10 78330-20-8:	-rich	a, ethoxylated	
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 10 - Exposure time: 96 h Method: DIN 38412	100 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 10 - 100 mg/ Exposure time: 48 h Method: DIN 38412	1
		NOEC (Daphnia magna (Water flea)): 12,5 Exposure time: 21 d Method: OECD Test Guideline 202	5 mg/l
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (gr Method: see user defined free text	een algae)): 10 - 100 mg/l
		EC50 (Scenedesmus subspicatus): > 10 - Method: see user defined free text	100 mg/l
Toxicity to bacteria	:	EC10 (activated sludge): 48 mg/l Exposure time: 17 h Method: DIN 38412	
sodium carbonate 497-19-8:			
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfi Exposure time: 96 h	ish)): 300 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 200 - Exposure time: 48 h	- 227 mg/l
		EC50 (Daphnia (water flea)): 264 mg/l Exposure time: 48 h	
Persistence and degradability			
<u>Components:</u> (+)-tartaric acid 87-69-4:			
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 85 % Exposure time: 28 d Method: OECD Test Guideline 306	
ThOD	:	0,533 g/g	

sodium benzoate 532-32-1:



WM 0714016		Order number: 0714016	
Version 2.0		Revision Date 31.10.2019	Print Date 23.01.2020
Biodegradability	:	Result: Readily biodegradable. Biodegradation: 90 % Exposure time: 7 d Method: OECD 301 B	
Alcohols, C9 – C11 · 78330-20-8:	–iso-, C10 –ricł	a, ethoxylated	
Biodegradability	:	Biodegradation: > 90 % Method: OECD 301 E	
		Result: rapidly biodegradable Biodegradation: > 60 % Exposure time: 28 d Method: OECD 301 B	
Biochemical Oxygen (BOD)	Demand :	1.650 mg/g Incubation time: 30 d	
Chemical Oxygen De (COD)	mand :	2.500 mg/g	
12.3 Bioaccumulative po	tential		
<u>Components:</u> sodium dodecyl sul 151-21-3:	phate		
Bioaccumulation	:	Bioconcentration factor (BCF): 71	
Partition coefficient: n octanol/water	I <b>-</b> :	log Pow: 1,6	
(+)-tartaric acid 87-69-4: Partition coefficient: n octanol/water	I- :	log Pow: -0,76	
sodium benzoate 532-32-1: Partition coefficient: n octanol/water	I <b>-</b> :	log Pow: -2,27	
I Alcohols, C9 – C11 ⋅ 78330-20-8:	–iso-, C10 –ricł	a, ethoxylated	
Bioaccumulation	:	Remarks: No bioaccumulation is to be ex	pected (log Pow <= 4).
12.4 Mobility in soil			
Components: sodium dodecyl sul 151-21-3: Distribution among environmental compa	:	Koc: 10000Remarks: immobile	



**APESIN AP 100 PLUS** WM 0714016 Order number: 0714016 Version 2.0 Revision Date 31.10.2019 Print Date 23.01.2020 12.5 Results of PBT and vPvB assessment Not relevant 12.6 Other adverse effects Product: Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Empty remaining contents. : Dispose of as unused product. Do not re-use empty containers. **SECTION 14: Transport information** 14.1 UN number ADR : 3260

#### 14.2 Proper shipping name

IMDG

ΙΑΤΑ

14.2 Proper snipping name	
ADR	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (pentapotassium bis(peroxymonosulphate) bis(sulphate))
IMDG	: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (pentapotassium bis(peroxymonosulphate) bis(sulphate))
ΙΑΤΑ	: Corrosive solid, acidic, inorganic, n.o.s. Not permitted for transport
14.3 Transport hazard class ADR IMDG IATA	: 8 : 8 : 8
14.4 Packing group ADR Classification Code Packaging group Hazard Identification Number Labels Tunnel restriction code IMDG	: C2 : III : 80 : 8 : (E)

: 3260

: 3260



WM 0714016		Order number: 0714016	
Version 2.0		Revision Date 31.10.2019	Print Date 23.01.2020
Packaging group Labels EmS Number IATA (Cargo) Packaging group Labels	: :	III 8 F-A, S-B Corrosive solid, acidic, inorganic, n.o.s. I III 8	Not permitted for transport
<b>14.5 Environmental hazards</b> <b>ADR</b> Environmentally hazardous	:	no	
IMDG Marine pollutant IATA Environmentally hazardous		no no	

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

Regulation (EC) No 649/2012 of the European Parliament and : Not applicable the Council concerning the export and import of dangerous chemicals				
REACH - Restrictions on the manumarket and use of certain dangero and articles (Annex XVII)				
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	: Not applicable			
TA Ľuft List (Germany)	<ul> <li>Total dust: Not applicable</li> <li>Inorganic substances in powdered form: Not applicable</li> <li>Inorganic substances in vapour or gaseous form: Not applicable</li> <li>Organic Substances: portionClass 1: 25 %</li> <li>Carcinogenic substances: Not applicable</li> <li>Mutagenic: Not applicable</li> <li>Toxic to reproduction: Not applicable</li> </ul>			



Professional

# **APESIN AP 100 PLUS**

WM 0714016	Order number: 0714016	
Version 2.0	Revision Date 31.10.2019	Print Date 23.01.2020
according to Detergents Regulation EC 648/2004	<ul> <li>&gt;=30% oxygen-based bleaching agents surfactants, &lt;5% phosphonates, Non-io Perfumes</li> </ul>	
GISBAU (D)	: GD 13	

### 15.2 Chemical safety assessment

There is no data available for this product.

### **SECTION 16: Other information**

### Full text of H-Statements

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### **Further information**

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H314	Calculation method
	H318	Calculation method
	H412	Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical



WM	071	401	6		

Version 2.0

## Order number: 0714016

Revision Date 31.10.2019 Print Date 23.01.2020

Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.