Safet	ty Data Sheet in Accordance with	regulation 2015/830	Page 1 of 6
	of issue: 23.03.2017 Replaces Data Sheet of: 25.05.201 erations as compared to previous version; n.ap. = not a		
SECTI	ON 1: Identification of the substance/mixture a	nd of the company/undertaking	
1.1	Product identifierTrade Name:PLUSPAC FDArticle No.:n.av.Preparation No.:n.av.Registration No.:n.ap.		
1.2 1.3 1.3.1 1.3.2 1.4	Relevant identified uses of the substance or mixtu Identified uses: Potable water treatment, wastewater for Details of the supplier of the safety data sheet Address of the Company / Supplier: Feralco Deutschland GmbH, Große Drakenburger Str Telephone: +49-5021-988-470, Telefax: +49-5021-988 Responsible for the data sheet: CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 M Emergency telephone number Emergency - Telephone of Company / Undertaking Telephone: GGIZ +49 361 730730 (24h)	treatment raße 93-97, D - 31582 Nienburg / Wese 3 481, E-Mail: info.de@feralco.com	
SECTI	ON 2: Hazarda identification		
2.1 2.2	ON 2: Hazards identification Classification of the substance or mixture Classification and labelling according to Directive Eye Dam. 1; H318 / Met. Corr. 1; H290 Label elements Classification according to 1272/2008/EC: Yes. Applicable Exemptions: No. Signal word(s): Danger Component(s): Aluminium chloride, basic H - Phrases: H318: Causes serious eye damage. H290: May be corrosive to metals.	1272/2008/EC: Hazard picto	ogram(s):
*	P - Phrases: P280: Wear protective gloves/protective clothing/eye P305+P351+P338: IF IN EYES: Rinse cautiously with Remove contact lenses, if present and easy to do. Co P337+P313: If eye irritation persists: Get medical adv P234: Keep only in original container. P390: Absorb spillage to prevent material damage. P406: Store in corrosive resistant container with a res Additional Markings: None.	water for several minutes. ontinue rinsing. ice/attention.	
2.3	The above mentioned labelling is valid for distribution Other hazards Solutions with low pH-value must be neutralized befor This mixture contains no substances which are asses	re discharge. Corrodes base metals.	

Trade Name: PLUSPAC FD 1000, 1465

Company / Supplier: Feralco Deutschland GmbH, Große Drakenburger Straße 93-97, D - 31582 Nienburg / Weser Telephone: +49-5021-988-470, Date of issue: 23.03.2017 Replaces Data Sheet of: 25.05.2016

1	Substances					
	n.ap.					
2	Mixtures					
	Chemical Characterisation:					
	Aqueos Polyaluminiumchloride-hydroxide solution					
	Dangerous Ingred	lients:				
	Material	Index Ne			m%	
	CAS - No. Hazard Code(s) / H -	Index - No.	EC - No.	REACH - No.	range	
					40	
	Aluminium chloride	e, basic n.av.	215-477-2	01-2119531563-43-xxxx	10 - 30%	
	Eye Irrit. 2; H319 / M		210-477-2	01-2110001000-40-444		
		,				
	Text of H - phrases: s	on soction 16				
	m% - range: $x - y \triangleq x$					
	5 ,	,				
ЕСТІ	ION 4: First aid me	easures				
1	Description of firs	t aid measures				
1.1	Inhalation:					
			inhalation of vapour	s or decomposition products.		
1.2	If symptoms persis Skin Contact:	t, call a physician.				
1.2	•••••••	oly with planty of wa	tor. If skip irritation	acreiete, call a physician		
1.3	Wash off immediately with plenty of water. If skin irritation persists, call a physician. Eye Contact:					
		mediately. In case o	of eve contact, remo	ve contact lens and rinse immediat	elv with plentv	
			ist 15 minutes.			
1.4	water, also under the Ingestion :		ist 15 minutes.			
1.4	water, also under the Ingestion :	ne eyelids, for at lea		vards drink plenty of water. Consult	a physician.	
1.4 2	water, also under the Ingestion: Do not induce vom Most important sy	ne eyelids, for at lea iting. Clean mouth w mptoms and effect	with water and afterv ts, both acute and	delayed	a physician.	
2	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prov	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any i	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy mmediate medica	with water and aften t s, both acute and /mptoms: nausea, v	delayed	a physician.	
2	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prov	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy mmediate medica	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
<u>2</u> 3	water, also under th Ingestion: Do not induce vom Most important sy Ingestion may prov Indication of any i Treat symptomatica	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy mmediate medical ally.	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
2 3 ECT I	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any in Treat symptomatication	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy mmediate medical ally.	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
2 3 ECT I	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any in Treat symptomatication ION 5: Firefighting Extinguishing meters	ne eyelids, for at lea iting. Clean mouth v rmptoms and effect oke the following sy mmediate medical ally. I measures dia	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
2 3 ECT I	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any in Treat symptomatication	ne eyelids, for at lea iting. Clean mouth v mptoms and effect oke the following sy mmediate medical ally. I measures dia shing Media:	with water and aften t s, both acute and /mptoms: nausea, v	delayed omiting.	a physician.	
2 3 ECT I	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any i Treat symptomatication ION 5: Firefighting Extinguishing met Suitable Extinguis The product itself d	ne eyelids, for at lea iting. Clean mouth w mptoms and effect oke the following sy mmediate medical ally. <u>I measures</u> dia shing Media: loes not burn.	with water and afterv et s, both acute and /mptoms: nausea, v I attention and spe	delayed omiting.		
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2 3 ECT I 1 1.1	water, also under the Ingestion: Do not induce vom Most important sy Ingestion may prove Indication of any in Treat symptomaticat ION 5: Firefighting Extinguishing men- Suitable Extinguishing men- Suitable Extinguishing men- Suitable Extinguishing men- Subscription of the product itself of Use extinguishing men- Extinguishing men- Special hazards a	ne eyelids, for at lea iting. Clean mouth v mptoms and effect oke the following sy mmediate medical ally. <u>measures</u> dia shing Media: loes not burn. measures that are a dia to Avoid: jet. rising from the su	with water and afterv ets, both acute and mptoms: nausea, v I attention and spe	delayed omiting. cial treatment needed ircumstances and the surrounding		
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	Name: PLUSPAC FD 10 any / Supplier: Feralco D	000, 1465 eutschland GmbH, Große Drakenburger Straße 93-97, D - 31582 Nienburg / Weser
Teleph	none: +49-5021-988-470,	Date of issue: 23.03.2017 Replaces Data Sheet of: 25.05.2016
	ON 6: Accidental rele	
6.1		, protective equipment and emergency procedures
	See chapter 8.2.2	ation. Dravida appropriate exhaust ventilation at places where dust is formed
6.2	Environmental precau	ation. Provide appropriate exhaust ventilation at places where dust is formed.
0.2		d be advised if significant spillages cannot be contained.
		ng equipment. Avoid dust formation.
6.3		for containment and cleaning up
		brbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
	Treat recovered materia	al as described in the section "Disposal considerations".
6.4	Reference to other se	ctions
	None.	
	ON 7: Handling and s	
7.1	Precautions for safe h	
7.1.1	Precautions for Safe I	
		and eyes. When using, do not eat, drink or smoke.
		ed clothing immediately. Wash hands before breaks and at the end of workday. ays add the product to the neutralising agent.
	Never add neutralising	
7.1.2	Precautions in Case of	
		mable. No special precautions required.
7.2		orage, including any incompatibilities
7.2.1	Storage Instructions:	
		closed in a dry and well-ventilated place. acid resisting floor.
7.2.2	Store away from:	- Incompatible with avidining exerts
7.2.3	Further Information of	s. Incompatible with oxidizing agents.
1.2.0	Corrosive in contact wit	
7.3	Specific end use(s) n.av.	
SECTI	ON 8: Exposure cont	rols/personal protection
8.1	Control parameters	·
	Material	Limit Value
	Aluminium chloride, basic	TLV dust: 10 mg/m ³ (respirable fraction); 3 mg/m ³ (alveole passing fraction)
8.2	Exposure controls	
8.2.1	Appropriate engineeri	ing controls
	Close container straigh	t after use or if empty. Caution at reopening used containers.
8.2.2	Individual protection I	
8.2.2a	Respiratory Protection	n: If ventilation is insufficient, wear respiratory protection Short term:
8.2.2b	Hand Protection:	filter apparatus, combination filter B-P2 Gloves (acid resistant) Rubber gloves, Viton, Break through time > 8h.
0.2.20		The choice of an appropriate glove does not only depend on its material but also on
		other quality features and is different from one producer to the other.
		Please observe the instructions regarding permeability and breakthrough time which
		are provided by the supplier of the gloves. Also take into consideration the specific
		local conditions under which the product is used, such as the danger of cuts,
8.2.2c	Eye Protection:	abrasion, and the contact time. tightly fitting safety goggles
8.2.2d	Skin Protection:	protective suit
8.2.2e	Further Information:	Observe wearing time limits:
8.2.3	Environmental exposition n.av.	-
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Trade Name: PLUSPAC FD 1000, 1465

Company / Supplier: Feralco Deutschland GmbH, Große Drakenburger Straße 93-97, D - 31582 Nienburg / Weser Telephone: +49-5021-988-470, Date of issue: 23.03.2017 Replaces Data Sheet of: 25.05.2016

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

Information on basic physical and chemical properties

0.1	information on basic physical and			
9.1.1	Form: liquid Colour:	colourless- weakly yellow	Odour: Odour threshold:	not significant n.av.
9.1.2	pH-value, undiluted:	2,2 ± 0,7 *	ouour inconoia.	
	pH-value, 1% aqueous solution:	n.av.		
9.1.3	Boiling point / Boiling - range (°C):	105 - 115, Me	Iting point / Melting rai	nge (°C): -15
9.1.4	Flash point (°C):	n.ap., closed	cup	
9.1.5	Flammability (EEC A10/A13):	n.ap.		
9.1.6	Ignition temperature (°C):	n.ap.		
9.1.7	Autoflammability (EEC A16):	n.ap.		
9.1.8	Oxidising properties:	None.		
9.1.9	Explosion hazard:	No.		
9.1.10	Explosion limits (Vol.%) lower:	n.ap., upper:	n.ap.	
9.1.11	Vapour pressure:	n.ap.		
	Vapour density (Air = 1):	n.av.		
9.1.12	Density (g/ml):	1,2- 1,4		
9.1.13	Solubility (in Water):	miscible		
	Soluble in:	Soluble in pol	ar solvents	
9.1.14	Partition coefficient, n-Octanol / Wat			
9.1.15	Viscosity:	5 mPa*s /56 I	Pa*s (FD 1000/FD146	5); 20°C *
9.1.16	Solvent content (m %):	n.ap.		
9.1.17	Thermal decomposition (°C):	> 200		
9.1.18	Evaporation rate:	n.av.		
9.2	Other information			
	n.av.			
SECTI	ON 10: Stability and reactivity			
10.1	Reactivity			
10.0	None.			
10.2	Chemical stability			
10.0	Stable under normal conditions.			
10.3	Possibility of hazardous reactions			
10.4	No dangerous reaction known unde	r conditions of normal u	se.	
10.4	Conditions to avoid			
10 5	temperatures above 50°C			
10.5	Incompatible materials	D +:: ++ +		
10.0	Reactions with alkalies and metals.		ixidising agents.	
10.6	Hazardous decomposition produc	ts		
	Hydrogen chloride gas.			

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Trade Name: PLUSPAC FD 1000, 1465

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0.000		a al linfamor d'		
	ON 11: Toxicologi			
11.1	Information on tox			
	Acute Health Effect	IS:		
	Inhalation:		n.av. ATEmiy	: > 2000 mg/Kg
	Ingestion: Skin Contact:			: > 2000 mg/Kg
	Skin corrosion / irrit	tation.		DECD 404)
	Serious eye damag			serious eye damage.(OECD 405)
	Respiratory or skin			sitizing in the maximum-dose test on guinea pigs.; Lit.
		oonoliouloulon.	AICI3	
	Germ cell mutagen	icity:	n.av.	
	Carcinogenicity:	,	n.av.	
	Reproductive toxici	ty:	n.av.	
	STOT-single expos	ure:	n.av.	
	STOT-repeated exp	oosure:	n.av.	
	Aspiration hazard:		n.av.	
	Practical Experier	ice		
11.1.11	n.av.			
11.1.12	Practical Experience			
	Observations releva	ant for classification	1:	
	None.			
	Further Observation	ns:		
	Allergic reactions.	nrenaration has h	an done hy or	lculation in accordance with EEC directives.
			Son done by Co	
	ON 12: Ecologica	l information		
12.1	Toxicity			
	AICI3:			nbusia affinis: 27 mg/l;
				edemus quadricauda: 1,5 - 2 mg/l;
10.0	Develotones and d	a gradability	IC ₅₀ ; 24h Pseu	idomonas fluorescens 4,5 mg/l
12.2	Persistence and d		liminated from	the water by precipitation or flocculation.
12.3	Bioaccumulative		inninaleu nom	the water by precipitation of nocculation.
12.0	n.av.			
12.4	Mobility in soil			
	n.av.			
12.5	Results of PBT an	d vPvB assessme	nt	
-				sed to be PBT or vPvB.
12.6	Other adverse effe			
12.6.1	COD-Value, mg/g:		n.ap.	
12.6.2	BOD5-Value, mg/g:		n.ap.	
12.6.3	AOX-Remarks:		n.ap.	
12.6.4	Significant Compon		None.	
12.6.5	Other adverse effect		None.	
SECTIO	DN 13: Disposal cor	nsiderations		
13.1	Waste treatment n			
13.1.1	Recommendation:			Waste - Code - No.: 16 03 03* (VeVA/OMoD)
				The Waste code should be assigned in discussion
				between the user, the producer and the waste
				disposal company.
	In addition comply	with the regional au	thorities.	
13.2	Contaminated Pac			
13.2.1			e cleaner. Othe	rwise as described under Residues.
				d should be disposed of as for product
13.2.2	Safe Handling:	As described unde		
		Handle in accorda	nce with good	industrial hygiene and safety practice.

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Trade Name: PLUSPAC FD 1000, 1465

Company / Supplier: Feralco Deutschland GmbH, Große Drakenburger Straße 93-97, D - 31582 Nienburg / Weser Telephone: +49-5021-988-470, Date of issue: 23.03.2017 Replaces Data Sheet of: 25.05.2016

	ADR	IMDG	ΙΑΤΑ
l.1	UN number		Ι
	3264	3264	3264
.2	UN proper shipping name	-	
	UN 3264 Corrosive liquid, acidic,	Corrosive liquid, acidic, inorganic,	Corrosive liquid, acidic, inorganic,
	inorganic, n.o.s.	n.o.s.	n.o.s.
	(Aluminium hydroxide chloride)	(Aluminium hydroxide chloride)	(Aluminium hydroxide chloride)
1.3	Transport hazard class(es)		Ι
	8	8	8
	Â		Â
	8	8	8
1.4	Packing group		
		111	111
4.5	Environmental hazards		
		No.	
4.6	Special precautions for user	1	
	Transport category: 3	F-A, S-B	Packing Instructions (Passenger)
	Classification Code: C1		852
	Hazard - No.: 80 LQ: 5 L		Packing Instructions (Cargo) 856
4.7		have the f MARROL 72/79 and the IR	
+.7	Iransport in bulk according to Ar	nnex II of MARPOL73/78 and the IB	
		None.	
	ION 15: Regulatory information		
	Safety, health and environmental	regulations/legislation specific fo	r the substance or mixture
5.1	Safety, health and environmental n.av.	regulations/legislation specific fo	r the substance or mixture
5.1	Safety, health and environmental n.av. Chemical safety assessment :		r the substance or mixture
5.1	Safety, health and environmental n.av.		r the substance or mixture
5.1 5.2	Safety, health and environmental n.av. Chemical safety assessment :		r the substance or mixture
5.1 5.2 SECT	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information		r the substance or mixture
5.1 5.2 SECT	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has		r the substance or mixture
5.1 5.2 SECT SXt of 290:	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information f H phases mentioned in Section 3		r the substance or mixture
5.1 5.2 SECT ext of 290: 318:	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information F H phases mentioned in Section 3 May be corrosive to metals. Causes serious eye damage.	not been carried out.	r the substance or mixture
5.1 5.2 SECT 290: 318: his da	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information f H phases mentioned in Section 3 May be corrosive to metals.	not been carried out. ance with EU regulation 2015/830.	
5.1 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information F H phases mentioned in Section 3 May be corrosive to metals. Causes serious eye damage. atasheet has been compiled in accord atements in this Material Safety Data S te as possible. They are given for info	not been carried out. ance with EU regulation 2015/830. Sheet were made to the best of our k rmation only. They do not constitute a	nowledge and are as a contractual guarantee of a
5.1 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information If H phases mentioned in Section 3 May be corrosive to metals. Causes serious eye damage. atasheet has been compiled in accord atements in this Material Safety Data S te as possible. They are given for info it's properties. They must neither be a	not been carried out. ance with EU regulation 2015/830. Sheet were made to the best of our k rmation only. They do not constitute a ltered nor transferred to other produc	nowledge and are as a contractual guarantee of a
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5.1 5.2 SECT ext of 290: 318: his da he sta ccura roduc repar	Safety, health and environmental n.av. Chemical safety assessment : A chemical safety assessment has TION 16: Other information F H phases mentioned in Section 3 May be corrosive to metals. Causes serious eye damage. atasheet has been compiled in accord atements in this Material Safety Data S te as possible. They are given for info t's properties. They must neither be a ed by: CoSiChem AG, Ernst-Lemmer-	not been carried out. ance with EU regulation 2015/830. Sheet were made to the best of our k rmation only. They do not constitute a ltered nor transferred to other produc	nowledge and are as a contractual guarantee of a
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