

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name	:	Calcium / Magnesium Chloride Formulation								
1.2 Relevant identified uses of the	1.2 Relevant identified uses of the substance or mixture and uses advised against									
Use of the Sub- stance/Mixture		Veterinary product								
Recommended restrictions on use	:	Not applicable								
1.3 Details of the supplier of the	saf	ety data sheet								
Company	:									
		Kilsheelan Clonmel Tipperary, IE								
Telephone	:	353-51-601000								
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com								

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1B

H360FD: May damage fertility. May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



May damage fertility. May damage the unborn



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Preca	autionary statements	•	pecial instructions before use. tective gloves/ protective clothing/ eye protec- ion.
		Response: P308 + P313 II attention.	F exposed or concerned: Get medical advice/
		Storage: P405 Store loc	ked up.
Haza Boric	rdous components whi acid	ch must be listed on th	e label:
Addi EUH2		Chloro-3-methylphenc e an allergic reaction.	ıl.

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

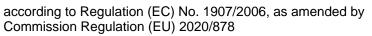
SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Boric acid	10043-35-3 233-139-2 005-007-00-2	Repr. 1B; H360FD	>= 1 - < 10
4-Chloro-3-methylphenol	59-50-7 200-431-6 604-014-00-3	Acute Tox. 4; H302 Skin Corr. 1C; H314	>= 0,1 - < 0,25

SAFETY DATA SHEET





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			Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1 Acute toxicity esti- mate Acute oral toxicity: 600 mg/kg
Subst	ances with a workpla	ce exposure limit :	
Magn	esium chloride	7786-30-3 232-094-6	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention.



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				Rinse mouth thore	oughly with water.
4.2	Most im	portant symptoms a	nd e	effects, both acute	e and delayed
	Risks		:	May damage ferti	lity. May damage the unborn child.
				May produce an a	allergic reaction.
4.3 I	Indicati	on of any immediate	med	dical attention and	special treatment needed
	Treatm	ent	:	Treat symptomati	cally and supportively.
SEC	CTION	5: Firefighting meas	sur	es	
5.1	Extingu	ishing media			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
5.2	Special	hazards arising from	the	e substance or mi	xture
	Specific fighting	c hazards during fire- I	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Boron oxides	nds
5.3	Advice	for firefighters			
	Specia for firef	I protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
	Follow safe handling advice (see section 7) and personal pro-
	tective equipment recommendations (see section 8).



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6.2 Environmental precautions									
	nmental precautions	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 							
6.3 Method	is and material for co	ntainment and clean	ing up						
6.3 Methods and material for cont Methods for cleaning up		For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.						

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Technical measures See Engineering measures under EXPOSURE : CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust Local/Total ventilation : ventilation. Advice on safe handling Do not get on skin or clothing. : Do not breathe vapours or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures:If exposure to chemical is likely during typical use, provide eye
flushing systems and safety showers close to the working
place. When using do not eat, drink or smoke. Wash contami-
nated clothing before re-use.
The effective operation of a facility should include review of
engineering controls, proper personal protective equipment,
appropriate degowning and decontamination procedures,
industrial hygiene monitoring, medical surveillance and the



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				use of administra	tive controls.	
7.2 C	onditio	ons for safe storage,	inc	luding any incom	patibilities	
Requirements for storage : areas and containers				Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.		
,	Advice	on common storage	:	Strong oxidizing a	stances and mixtures	
	pecific Specific	end use(s) use(s)	:	No data available		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Magnesium chlo- ride	7786-30-3	TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal
4-Chloro-3- methylphenol	59-50-7	TWA	200 µg/m3 (OEB 2)	Internal
		Wipe limit	100 µg/100 cm2	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Magnesium chloride	Consumers	Ingestion	Long-term systemic effects	7 mg/kg bw/day
Boric acid	Workers	Skin contact	Long-term systemic effects	392 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	8,3 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	0,98 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,98 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,15 mg/m3
	Consumers	Skin contact	Long-term systemic effects	196 mg/kg bw/day
4-Chloro-3- methylphenol	Workers	Inhalation	Long-term systemic effects	6,289 mg/m3



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		Workers	Skin con	ntact	Long-term systemic effects	: 3,567 mg/k bw/day
		Consumers	Inhalatio	n	Long-term systemic effects	: 1,551 mg/n
		Consumers	Skin con	ntact	Long-term systemic effects	: 1,783 mg/k bw/day
		Consumers	Ingestior	n	Long-term systemic effects	: 0,892 mg/k bw/day
Predi	cted No Effect Co				Regulation (EC) No	
	tance name		nvironmental	Compartr	ment	Value
Magn	esium chloride	Fi	esh water			3,21 mg/l
			arine water			0,32 mg/l
		In	termittent use	e/release		5,48 mg/l
			Sewage treatment plant			
		Fi	Fresh water sediment			288,9 mg/kg d
						weight (d.w.)
		M	arine sedime	nt		28,89 mg/kg d
						weight (d.w.)
		S	oil			662,77 mg/kg
						weight (d.w.)
Boric	acid		esh water			2,9 mg/l
		In	termittent use	e/release		13,7 mg/l
			arine water			2,9 mg/l
		S	ewage treatm	nent plant		10 mg/l
		S	oil			5,7 mg/kg dry
						weight (d.w.)
4-Chl	oro-3-methylphene		esh water			0,015 mg/l
			termittent use	e/release		0,015 mg/l
			arine water			0,002 mg/l
			ewage treatm			2,286 mg/l
		Fi	esh water se	diment		13,981 mg/kg
						weight (d.w.)
		Μ	arine sedime	nt		13,981 mg/kg
						weight (d.w.)
		S	oil			6,399 mg/kg d
1						weight (d.w.)

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection	: Wear safety glasses with side shields or goggles.
	If the work environment or activity involves dusty conditions,
	mists or aerosols, wear the appropriate goggles.
	Wear a faceshield or other full face protection if there is a
	potential for direct contact to the face with dusts, mists, or



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	protection tterial	aerosols. : Chemical-re	sistant gloves
	and body protection ratory protection	: If adequate sure assess ommended	n or laboratory coat. ocal exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection. hould conform to NS EN 143
Filt	er type	: Particulates	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	translucent, light yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	3,0 - 4,0
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available



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	Partition	coefficient: n- water	:	Not applicable	
V	/apour	pressure	:	No data available	e
R	Relative	density	:	No data available	e
D	Density		:	1,000 - 1,200 g/c	cm ³
R	Relative	vapour density	:	No data available	e
Р		characteristics cle size	:	Not applicable	
9.2 Ot	ther inf	formation			
E	xplosiv	/es	:	Not explosive	
C	Dxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
E	Evapora	tion rate	:	No data available	e
N	lolecula	ar weight	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity haza	rd.
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reaction	ons
Hazardous reactions :	Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	None known.
10.5 Incompatible materials	
Materials to avoid :	Oxidizing agents
10.6 Hazardous decomposition proc	lucts

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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



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	exposu		:	Inhalation Skin contact Ingestion Eye contact	
	Acute t Not clas	ssified based on availa	ble	information.	
	<u>Compo</u>	onents:			
	Boric a Acute o	rcid: bral toxicity	:	LD50 (Rat): 3.450	mg/kg
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 2,00 Exposure time: 4 I Test atmosphere: Method: OECD Te Assessment: The tion toxicity	n dust/mist
	Acute d	lermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2.000 mg/kg substance or mixture has no acute dermal
	4-Chlo	ro-3-methylphenol:			
	Acute o	oral toxicity	:	LD50 (Mouse): 60	0 mg/kg
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 2,87 Exposure time: 4 Test atmosphere:	n
	Acute d	lermal toxicity	:	LD50 (Rat): > 5.00	00 mg/kg
	Magne	sium chloride:			
	Acute o	oral toxicity	:	icity	
	Acute d	lermal toxicity	:	toxicity	

Skin corrosion/irritation

Not classified based on available information.

Components:

Boric acid:

_

Species

Method



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Spec Resu			abbit o skin irritation	
4-Ch	loro-3-methylphenol:			
Spec Meth Resu	od	: C	abbit ECD Test Guid orrosive after 1	eline 404 to 4 hours of exposure
Magr	nesium chloride:			
Spec Meth Rema	ies od	: R	egulation (EC)	man epidermis (RhE) No. 440/2008, Annex, B.46 om similar materials
Resu	llt	: N	o skin irritation	
Not c	ous eye damage/eye i classified based on ava ponents:			
Borio	c acid:			
Spec Resu			abbit o eye irritation	
4-Ch	loro-3-methylphenol:			
Spec Meth Resu	ies od	: C	abbit ECD Test Guid reversible effec	
Maqr	nesium chloride:			
Spec Meth Resu Rema	ies od It	: C : N	abbit ECD Test Guid o eye irritation ased on data fr	eline 405 om similar materials
Resp	piratory or skin sensit	isation		
-	sensitisation lassified based on ava	ilable inf	ormation.	
-	biratory sensitisation classified based on ava	ilable inf	ormation.	
<u>Com</u>	ponents:			
Test	sure routes	: S	uehler Test kin contact	

OECD Test Guideline 406

: Guinea pig

:



/ersion 5.1	Revision Date: 30.09.2023		9S Number: 68119-00009	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
Resul	t	:	negative	
4-Chl	oro-3-methylphenol	:		
Test 7		:	Maximisation Tes	st
	sure routes	:	Skin contact	
Speci	es	:	Guinea pig	
Asses	sment	:	Probability or evid rate in humans	dence of low to moderate skin sensitisation
Magn	esium chloride:			
Test	Гуре	:	Maximisation Tes	st
	sure routes	:	Skin contact	
Speci		:	Guinea pig	l' (00
Metho Resul		÷	OECD Test Guid	eline 406
Rema		:	negative Based on data fro	om similar materials
•				
	cell mutagenicity assified based on ava	ailable	information.	
Comp	oonents:			
Boric	acid:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitre Result: equivocal	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
Geno	toxicity in vivo	:	cytogenetic assa	nalian erythrocyte micronucleus test (in vivo y)
			Species: Mouse	. Is not in
			Application Route Result: negative	a. Ingestion
4 01 1				
	oro-3-methylphenol	•	Toot Turse Doots	rial reverse mutation access (AMEC)
Geno	toxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES)
Magn	esium chloride:			
Geno	toxicity in vitro	:	Test Type: In vitre Result: negative	o mammalian cell gene mutation test
				nosome aberration test in vitro rest Guideline 473
			12 / 21	



rsion	Revision Date: 30.09.2023	SDS Number 7668119-000	
		Remarks:	Based on data from similar materials
		Test Type Result: ne	e: Bacterial reverse mutation assay (AMES)
	i nogenicity lassified based on ava	ilable informatior).
<u>Com</u>	ponents:		
Boric	acid:		
	cation Route	: Mouse : Ingestion	
Expos Resul	sure time It	: 103 week : negative	S
Magn	nesium chloride:		
Speci		: Mouse	
	cation Route sure time	: Ingestion : 18 Months	5
Resu	lt	: negative	
Rema	arks	: Based on	data from similar materials
-	oductive toxicity damage fertility. May d	amage the unbo	rn child
-	ponents:		in child.
Boric	acid:		
Effect	ts on fertility	Species: I	n Route: Ingestion
Effect	ts on foetal develop-		: Embryo-foetal development
ment		Species: I	Rabbit n Route: Ingestion
Renro			lence of adverse effects on sexual function and ferti
sessn	oductive toxicity - As- nent	ity, based	on animal experiments., Clear evidence of adverse development, based on animal experiments.
sessn		ity, based	on animal experiments., Clear evidence of adverse
sessn 4-Chl	nent	ity, based effects on : Test Type Species: I	on animal experiments., Clear evidence of adverse development, based on animal experiments. :: One-generation reproduction toxicity study Rat n Route: Ingestion



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		Species: R Application Result: neg	Route: Ingestion
Magn	esium chloride:		
-	s on fertility	reproductio Species: R Application Method: Of Result: neg	Route: Ingestion ECD Test Guideline 422
Effects ment	s on foetal develop-	Species: R Application Result: neg	Route: Ingestion
	- single exposure assified based on avai	lable information	
	ionents:		
	oro-3-methylphenol:		
	sment	: May cause	respiratory irritation.
	- repeated exposure assified based on avai		
Repea	ated dose toxicity		
Comp	oonents:		
Deri			
ROLIC	acid:		
Specie NOAE LOAE Applic	es EL	: Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr	
Specie NOAE LOAE Applic Expos	es EL L cation Route sure time	: 100 mg/kg : 334 mg/kg : Ingestion	
Specie NOAE LOAE Applic Expos 4-Chlo Specie NOAE LOAE Applic	es EL L sation Route sure time oro-3-methylphenol: es EL	: 100 mg/kg : 334 mg/kg : Ingestion	
Specie NOAE LOAE Applic Expos 4-Chle Specie NOAE LOAE Applic Expos	es EL L cation Route sure time oro-3-methylphenol: es EL L cation Route	 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 200 mg/kg 400 mg/kg Ingestion 	



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	EL cation Route sure time	 308 mg/kg 1.600 mg/kg Ingestion 90 Days Based on data from similar materials 	

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:		
Boric acid: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 74 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 102 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 17,5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC10 : 35,4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to fish (Chronic tox- icity)	:	NOEC: 6,4 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210



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а		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 10,8 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)
4	-Chloi	o-3-methylphenol:			
		to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 917 μg/l δ h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	ErC50 (Chlorella p Exposure time: 72 Method: OECD Te	
				EC10 (Chlorella p Exposure time: 72 Method: OECD Te	
	/I-Facto city)	or (Acute aquatic tox-	:	1	
Т	oxicity	to microorganisms	:	EC50 : 22,86 mg/ Exposure time: 60	
а		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,32 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
N	lagne	sium chloride:			
	-	to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 2.119,3 mg/l S h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 548,4 mg/l 3 h
	oxicity lants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
				NOEC (Desmode: Exposure time: 72 Method: OECD Te	
Т	oxicity	to microorganisms	:	NOEC : > 900 mg Exposure time: 3 Method: OECD Te	h
		to daphnia and other invertebrates (Chron-	:	EC10: 321 mg/l Exposure time: 21	d



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ic tox	cicity)		Species: Daphni	a magna (Water flea)
12.2 Pers	istence and degradab	oility		
<u>Com</u>	ponents:			
4-Ch	loro-3-methylphenol:			
Biode	egradability	:	Result: Readily & Biodegradation: Exposure time: 1 Method: OECD	78 %
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Borio	c acid:			
Bioad	ccumulation	:		us carpio (Carp) n factor (BCF): <= 3,2 Test Guideline 305
	tion coefficient: n- nol/water	:	: log Pow: -1,09	
4-Ch	loro-3-methylphenol:			
Bioad	ccumulation	:	Species: Cyprinu Bioconcentration	us carpio (Carp) n factor (BCF): 5,5 - 13
	tion coefficient: n- nol/water	:	: log Pow: 0,477	
	ility in soil ata available			
12.5 Resu	ults of PBT and vPvB	asse	ssment	
<u>Prod</u> Asse	<u>uct:</u> ssment	:	to be either pers	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or ind very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prop	oertie	es	
Prod	uct:			
	ssment	:	ered to have end REACH Article 5	nixture does not contain components consid- docrine disrupting properties according to 67(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.



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12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations		
13.1 Waste treatment methods		
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. 	
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good



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	ID	Ū	as a dangerous good
IN	NDG	: Not regulated a	as a dangerous good
IA	IATA (Cargo) : Not regulated as a dangerous good		
IATA (Passenger) : Not regulated as a dangerous good		as a dangerous good	
14.5 Environmental hazards Not regulated as a dangerous good			
14.6 Special precautions for user Not applicable			
447 M	laritima transport in bulk	eccording to IMO in	otrumonto

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		If you intend to use this product as tattoo ink, please contact your ven- dor.
		Boric acid (Number on list 30)
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Boric acid
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian major-accident hazards involving dangerous substances.		t and of the Council on the control of

Not applicable



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Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this	product are reported ir	n the following inventories:

DSL	:	not determined
AICS	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H302 H314 H317 H318 H335 H360FD H400 H412		Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May damage fertility. May damage the unborn child. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Full text of other abbreviatio	ns	
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Repr. Skin Corr. Skin Sens. STOT SE	-	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Reproductive toxicity Skin corrosion Skin sensitisation Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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 - Emergen-



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cy 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 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; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

H360FD

Classification of the mixture:

Repr. 1B

Classification procedure:

Calculation method

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN