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

<b>1.1 Product identifier</b> Trade name	:	Calcium / Formulati	Magnesium Chloride / Phosphorylethanolamine on
			or mixture and uses advised against
Use of the Sub- stance/Mixture		Veterinary	product
Recommended restrictions on use	:	Not applic	able
1.3 Details of the supplier of th	e saf	fety data sl	neet
Company	:	MSD	
		Kilsheelar Clonmel	n Tipperary, IE
Telephone	:	353-51-60	1000
E-mail address of person responsible for the SDS	:	EHSDAT	ASTEWARD@msd.com
1.4 Emergency telephone num 1-908-423-6000	ber		
SECTION 2: Hazards identifi	icati	on	
2.1 Classification of the substa	ince	or mixture	
Classification (REGULATIO	•	•	-
Reproductive toxicity, Categ	ory 1	В	H360FD: May damage fertility. May damage the unborn child.
2.2 Label elements			
Labelling (REGULATION (I	EC) N	No 1272/20	08)
Hazard pictograms	:		

: H360FD May damage fertility. May damage the unborn

÷

Danger

Signal word

Hazard statements



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		ch	ild.
Preca	utionary statements	: Prevention:	
	·	P280 We	otain special instructions before use. ear protective gloves/ protective clothing/ eye otection/ face protection.
		Response:	
			IF exposed or concerned: Get medical advice/ ention.
		Storage: P405 Sto	ore locked up.

Hazardous components which must be listed on the label:

Boric acid

#### **Additional Labelling**

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.	Classification	Concentration	
	EC-No.		(% w/w)	
	Index-No.		. ,	
	Registration number			
Boric acid	10043-35-3	Repr. 1B; H360FD	>= 1 - < 10	
	233-139-2			
	005-007-00-2			
Ш				
Substances with a workplace exposure limit :				
Magnesium chloride	7786-30-3		>= 1 - < 10	
	232-094-6			

Commission Regulation (EU) 2020/878



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Ш							
F	For explanation of abbreviation	ons s	see section 16.				
SEC	TION 4: First aid measur	es					
4.1 D	escription of first aid meas	ure	5				
	General advice	:	In the case of acc vice immediately. When symptoms advice.		-		
F	Protection of first-aiders	:	First Aid responde and use the recor when the potentia	nmendec	personal pro	otective e	quipment
ľ	f inhaled	:	If inhaled, remove to fresh air. Get medical attention.				
I	n case of skin contact	:	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>				
I	n case of eye contact	:	Flush eyes with w Get medical atten			ps and pe	ersists.
I	f swallowed	:	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.				
4.2 M	lost important symptoms a	nd e	effects, both acute	and del	aved		
	Risks	:				unborn cl	nild.
4.3 In	4.3 Indication of any immediate medical attention and special treatment needed						
٦	Freatment	:	Treat symptomati	cally and	supportively		
SEC	TION 5: Firefighting mea	sur	es				
5.1 E	xtinguishing media						
5	Suitable extinguishing media : Water spray Alcohol-resistant foam						

- Carbon dioxide (CO2) Dry chemical
- Unsuitable extinguishing : None known.



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	media				
5.2 S	Special	hazards arising from	the	e substance or mix	kture
Specific hazards during fire- fighting			:	Exposure to comb	pustion products may be a hazard to health.
Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides Chlorine compounds Boron oxides		
5.3 A	dvice	for firefighters			
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.
	Specifi 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 p tective equipment recommendations (see section
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## 6.2 Environmental precautions

Environmental precautions	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Prevent spreading over a wide area (e.g. by containment or oil barriers).</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained</li> </ul>
	cannot be contained.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: 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 disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to deter-



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		Sections 13 and	lations are applicable. 15 of this SDS provide information regarding national requirements.
See section	ence to other sections ons: 7, 8, 11, 12 and 13.		
SECTIO	N 7: Handling and st	orage	
7.1 Preca	utions for safe handlir	ng	
	nical measures	: See Engineering	g measures under EXPOSURE
Loca	I/Total ventilation		RSONAL PROTECTION section. lation is unavailable, use with local exhaust
	ce on safe handling ene measures	<ul> <li>Do not swallow. Avoid contact w Handle in accompractice, based sessment</li> <li>Keep container</li> <li>Take care to preenvironment.</li> <li>If exposure to ch flushing systems place. When usinated clothing b</li> <li>The effective op engineering con appropriate deg</li> </ul>	vapours or spray mist. ith eyes. dance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. event spills, waste and minimize release to the memical is likely during typical use, provide eye is and safety showers close to the working ng do not eat, drink or smoke. Wash contami- efore re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ie monitoring, medical surveillance and the
7.2 Cond	itions for safe storage,	including any incom	npatibilities
Requ	uirements for storage s and containers	: Keep in properly	/ labelled containers. Store locked up. Keep tore in accordance with the particular national
Advi	ce on common storage	Strong oxidizing	bstances and mixtures
7.3 Speci	fic end use(s)		
-	cific use(s)	: No data availab	e



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# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Boric acid	10043-35-3	OELV - 8 hrs (TWA)	2 mg/m3	IE OEL	
	Further information: Repr 1B - Substances which are presumed human repro- ductive toxicants				
Magnesium chlo- ride	7786-30-3	TWA	OEB 2 (>= 100 < 1000 μg/m3)	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

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Magnesium chloride	Fresh water	3.21 mg/l
	Marine water	0.32 mg/l
	Intermittent use/release	5.48 mg/l
	Sewage treatment plant	90 mg/l
	Fresh water sediment	288.9 mg/kg dry
		weight (d.w.)
	Marine sediment	28.89 mg/kg dry
		weight (d.w.)
	Soil	662.77 mg/kg dry
		weight (d.w.)
Boric acid	Fresh water	2.9 mg/l
	Intermittent use/release	13.7 mg/l
	Marine water	2.9 mg/l
	Sewage treatment plant	10 mg/l
	Soil	5.7 mg/kg dry



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II			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 aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 143
Filter type	:	Particulates type (P)

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

## 9.1 Information on basic physical and chemical properties

:	liquid
:	Colorless to pale yellow
:	No data available
:	Not applicable
:	No data available
:	No data available
	:::::::::::::::::::::::::::::::::::::::



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		explosion limit / Lower ability limit	:	No data available	
	Flash p	point	:	No data available	)
	Auto-ig	nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	
	рН		:	3.4 - 4.5	
	Viscosi Visc	ity cosity, kinematic	:	No data available	
	Solubil Wat	ity(ies) ter solubility	:	No data available	3
	Partitio octano	n coefficient: n- l/water	:	Not applicable	
	Vapou	rpressure	:	No data available	)
	Relativ	e density	:	No data available	
	Density	/	:	No data available	)
	Relativ	e vapour density	:	No data available	
		e characteristics ticle size	:	Not applicable	
9.2	Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	No data available	)
	Molecu	ılar weight	:	No data available	)

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### **10.2 Chemical stability**

Stable under normal conditions.



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10.3 Poss	ibility of hazardous r	reaction	ons		
Haza	rdous reactions	:	Can react with	strong oxidizing agents.	
10.4 Cond	litions to avoid				
Cond	itions to avoid	:	None known.		
10.5 Incoi	mpatible materials				
Mater	rials to avoid	:	Oxidizing age	nts	
10.6 Haza	rdous decompositio	n proo	ducts		
No ha	azardous decompositio	on pro	ducts are known		
SECTION	N 11: Toxicological	infor	mation		
11.1 Infor	mation on hazard cla	asses	as defined in R	egulation (EC) No 1272/2008	
	nation on likely routes		Inhalation		
expos	sure		Skin contact		
			Ingestion Eye contact		
Acute	e toxicity				
Not c	lassified based on ava	ailable	information.		
Com	ponents:				
Borio	acid:				
Acute	e oral toxicity	:	LD50 (Rat): 3,4	150 mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 2		
			Exposure time: Test atmosphe		
				) Test Guideline 403	
			Assessment: T tion toxicity	he substance or mixture has no acute inhala-	
Acute	e dermal toxicity	:	LD50 (Rabbit):		
			Assessment: T toxicity	he substance or mixture has no acute dermal	
II Magr	nesium chloride:				
	e oral toxicity	:	LD50 (Rat): > 2		
				) Test Guideline 423 he substance or mixture has no acute oral tox-	
			icity		
				ed on data from similar materials	
Acute	e dermal toxicity	:	LD50 (Rat): > 2		
II			Method: OECD	) Test Guideline 402	



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		toxicity		e substance or mixture has no acute dermal on data from similar materials
	corrosion/irritation assified based on ava	lable informat	ion.	
Com	oonents:			
	acid:			
Speci Resu	es	: Rabbit : No skir	n irritation	
Magn	esium chloride:			
Speci Metho Rema	es od	: Regula	tion (EC)	iman epidermis (RhE) No. 440/2008, Annex, B.46 om similar materials
Resu	t	: No skir	n irritation	
Not cl <u>Com</u>		lable informat	ion.	
••		. No eye	intation	
Magn Speci Metho Resu Rema	od It	: No eye	irritation	leline 405 om similar materials
Resp	iratory or skin sensit	isation		
-	sensitisation assified based on ava	lable informat	ion.	
-	<b>iratory sensitisation</b> assified based on ava	lable informat	ion	
	oonents:			
Boric	acid:			
Test		: Buehle		



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Resu	lt	: negative	
Magr	nesium chloride:		
Test Expos Speci Metho Resu Rema	sure routes ies od It	: negative	Test Guideline 406 ta from similar materials
Not c	n cell mutagenicity lassified based on ava	ailable information.	
	ponents:		
	acid: toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: equiv	vitro mammalian cell gene mutation test ocal
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Geno	toxicity in vivo	cytogenetic a Species: Mor	use coute: Ingestion
Magn	nesium chloride:		
	toxicity in vitro	: Test Type: In Result: nega	vitro mammalian cell gene mutation test tive
		Method: OE0 Result: nega	hromosome aberration test in vitro CD Test Guideline 473 tive sed on data from similar materials
		Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Not c	inogenicity lassified based on ava	ailable information.	
-	ponents:		
Boric Speci	<b>; acid:</b> ies	: Mouse	



ersion .0	Revision Date: 28.09.2024	-	0S Number: 89707-00013	Date of last issue: 06.04.2024 Date of first issue: 28.01.2020			
Expos	Application Route Exposure time Result		Ingestion 103 weeks negative				
Magn	esium chloride:						
Applic Expos Resu	Species Application Route Exposure time Result Remarks		<ul> <li>Mouse</li> <li>Ingestion</li> <li>18 Months</li> <li>negative</li> <li>Based on data from similar materials</li> </ul>				
-	oductive toxicity damage fertility. May da	mad	e the unborn child				
	oonents:	anag					
	e <b>acid:</b> ts on fertility	:	Test Type: Three Species: Rat Application Route Result: positive	-generation reproduction toxicity study e: Ingestion			
Effect ment	ts on foetal develop-	:	Test Type: Embry Species: Rabbit Application Route Result: positive	vo-foetal development e: Ingestion			
	Reproductive toxicity - As- sessment		ity, based on anir	f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.			
Magn	esium chloride:						
	ts on fertility	:	reproduction/dev Species: Rat Application Route Method: OECD T Result: negative	ined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion fest Guideline 422 on data from similar materials			
Effect ment	ts on foetal develop-	:	Species: Rat Application Route Result: negative	vo-foetal development e: Ingestion on data from similar materials			

# STOT - single exposure

Not classified based on available information.



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#### STOT - repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### Components:

#### Boric acid:

Species NOAEL	: Rat
NOAEL	: 100 mg/kg
LOAEL	: 334 mg/kg
Application Route	: Ingestion
Exposure time	: 2 yr

#### Magnesium chloride:

Species :	Rat
NOAEL :	308 mg/kg
LOAEL :	1,600 mg/kg
Application Route :	Ingestion
Exposure time :	90 Days
Species:NOAEL:LOAEL:Application Route:Exposure time:Remarks:	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:**

<b>Boric acid:</b> 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	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52.4



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plants			mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To		
Toxicit	ty to microorganisms	:	EC10 : 35.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: 6.4 mg/l Exposure time: 34 Species: Danio re Method: OECD Te	rio (zebra fish)	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21	d magna (Water flea)	
Magno	esium chloride:				
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 2,119.3 mg/l S h	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 548.4 mg/l 3 h	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmoder Exposure time: 72 Method: OECD To		
			NOEC (Desmode Exposure time: 72 Method: OECD Te		
Toxicit	ty to microorganisms	:	NOEC : > 900 mg Exposure time: 3 Method: OECD Te	h	
	ty to daphnia and other c invertebrates (Chron- city)	:	EC10: 321 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)	

# 12.2 Persistence and degradability

No data available



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#### 12.3 Bioaccumulative potential

#### Components:

Bo	oric	acid:

Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): <= 3.2 Method: OECD Test Guideline 305
Partition coefficient: n- octanol/water	:	log Pow: -1.09

#### 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: 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.

## **12.6 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.

## 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> </ul>
	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.



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# **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		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
IATA (Cargo)	:	Not regulated as a dangerous good		
IATA (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards				
Nature en la trada de la companya de	~ ~			

Not regulated as a dangerous good

# 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



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# **SECTION 15: Regulatory information**

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

ure		
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 30: Boric acid
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
		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	:	Boric acid
Concern for Authorisation (Article 59).		
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliar	nent	and of the Council on the control of

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

## Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

## The components of this product are reported in the following inventories:

AICS

: not determined



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D	SL	:	not determined		
IE	CSC	:	not determined		
	hemical safety assessme nical Safety Assessment h		ot been carried out		
SECT	ION 16: Other informat	ion			
Ot	her information	:		nges have been made to the previous version the body of this document by two vertical	
Fu	Ill text of H-Statements				
H	H360FD :		May damage fertility. May damage the unborn child.		
Fu	Ill text of other abbreviat	ions			
	epr. OEL	:	<ul> <li>Reproductive toxicity</li> <li>Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2</li> </ul>		
IE	OEL / OELV - 8 hrs (TWA	) :	Occupational exp	osure limit value (8-hour reference period)	

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 - 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 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



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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; 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/

#### **Classification of the mixture:**

**Classification procedure:** 

Repr. 1B H360FD Calculation method

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

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.

IE / EN