

Version 5.1	Revision Date: 30.09.2023		S Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
Section 1	: Identification			
Prod	uct name	:	Calcium / Magn	nesium Chloride Formulation
Man	ufacturer or supplier's c	leta	ils	
Com	pany	:	MSD	
Addr	ess	:	33 Whakatiki St Upper Hutt - Ne	treet - Private Bag 908 ew Zealand
Telep	phone	:	0800 800 543	
Eme	Emergency telephone number :		0800 764 766 (CHEMCALL)	0800 POISON) 0800 243 622 (0800
E-ma	ail address	:	EHSDATASTE	WARD@msd.com
Reco	ommended use of the cl	hem	ical and restrict	ions on use
	ommended use rictions on use	:	Veterinary prod Not applicable	luct
Section 2	2: Hazard identification			
GHS	Classification			
	oductive toxicity	:	Category 1	
GHS	label elements			
Haza	ard pictograms	:		
Signa	al word	:	Danger	
Haza	ard statements	: H360FD May damage fertility. May damage the unborn cl		amage fertility. May damage the unborn child
Prec	Precautionary statements :		Prevention:	

P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	7665398-00008	Date of first issue: 10.12.2020

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

F		
Chemical name	CAS-No.	Concentration (% w/w)
Boric acid	10043-35-3	>= 1 -< 10
Magnesium chloride	7786-30-3	>= 1 -< 10
4-Chloro-3-methylphenol	59-50-7	>= 0.1 -< 0.25

Section 4: 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.
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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage fertility. May damage the unborn child.
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).
Notes to physician	:	Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Suitable extinguishing media :

: Water spray Alcohol-resistant foam



Versior 5.1	n Revision Date: 30.09.2023		S Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
me	nsuitable extinguishing edia becific hazards during fire-	:	Carbon dioxide (C Dry chemical None known.	:O2) bustion products may be a hazard to health.
fig	hting azardous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Boron oxides	
	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.	
	pecial protective equipment r firefighters	:		, wear self-contained breathing apparatus. ective equipment.
Section	n 6: Accidental release me	easi	ures	
tiv	ersonal precautions, protec- e equipment and emer- ency procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Er	Environmental precautions		Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil e of contaminated wash water. should be advised if significant spillages
	ethods and materials for ntainment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- nations are applicable. 5 of this SDS provide information regarding tional requirements.

Section 7: Handling and storage

Technical measures	: See Engineering measures under EXPOSURE
Local/Total ventilation	CONTROLS/PERSONAL PROTECTION section. : If sufficient ventilation is unavailable, use with local exhaust



Version 5.1	Revision Date: 30.09.2023	SDS Number: 7665398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
Advice on safe handling		Do not breath Do not swallo Avoid contact	
Hygiei	ne measures	 practice, base sessment Keep contained Take care to penvironment. If exposure to flushing system place. When using de Wash contained The effective engineering contained 	er tightly closed. brevent spills, waste and minimize release to the chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the
Condi	tions for safe storage	use of admini	strative controls. rly labelled containers.
Materi	als to avoid	Store in accor	dance with the particular national regulations. vith the following product types:

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Boric acid	10043-35-3	TWA (Inhal- able particu- late matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhal- able particu- late matter)	6 mg/m3 (Borate)	ACGIH
Magnesium chloride	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

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility



Version 5.1	Revision Date: 30.09.2023	-	S Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020	
			protect products	rated in accordance with GMP principles to , workers, and the environment. ations do not require special containment.	
Pers	onal protective equipme	ent			
	iratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type		
Hand	protection	•	i unioulutoo type	5	
М	aterial	:	Chemical-resista	ant gloves	
Eye ç	protection	:	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition 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.		
Skin	and body protection	:	Work uniform or	laboratory coat.	
Section 9	: Physical and chemica	ıl pr	operties		
Appe	arance	:	liquid		
Colou	ır	:	translucent, ligh	nt yellow	
Odou	ır	:	No data availab	ble	
Odou	ır Threshold	:	No data availab	ble	
pН		:	3.0 - 4.0		
Meltir	ng point/freezing point	:	No data availab	ble	
Initial range	boiling point and boiling	:	No data availab	ble	
Flash	n point	:	No data availab	ble	
Evap	oration rate	:	No data availab	ble	
Flam	mability (solid, gas)	:	Not applicable		
Flam	mability (liquids)	:	No data availab	ble	
	er explosion limit / Upper nability limit	:	No data availab	ble	
	er explosion limit / Lower nability limit	:	No data availab	ble	
Vapo	ur pressure	:	No data availab	ble	



Versio 5.1	n Revision Date: 30.09.2023	SDS Number: 7665398-0000	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
R	elative vapour density	: No data av	vailable
R	elative density	: No data av	vailable
De	ensity	: 1.000 - 1.2	200 g/cm³
So	blubility(ies) Water solubility	: No data av	vailable
	artition coefficient: n- ctanol/water	: Not application	able
	uto-ignition temperature	: No data av	vailable
De	ecomposition temperature	: No data av	vailable
Vi	scosity Viscosity, kinematic	: No data av	vailable
Ex	xplosive properties	: Not explos	ive
	xidizing properties		ance or mixture is not classified as oxidizing.
М	olecular weight	: No data av	vailable
Pa	article size	: Not applic	able

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation
	Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Components:

Boric acid:



sion	Revision Date: 30.09.2023		95 Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
Acute	oral toxicity	:	LD50 (Rat): 3,4	50 mg/kg
Acute	inhalation toxicity	:		4 h
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute derma
Magn	esium chloride:			
-	oral toxicity	:	Assessment: Thicity	,000 mg/kg Test Guideline 423 ne substance or mixture has no acute oral to d on data from similar materials
Acute	dermal toxicity	:	Assessment: Th toxicity	,000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma d on data from similar materials
4-Chl	oro-3-methylphenol	:		
	oral toxicity		LD50 (Mouse):	600 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time: Test atmosphere	4 h
Acute	dermal toxicity	:	LD50 (Rat): > 5	,000 mg/kg
-	corrosion/irritation assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Boric				
Specie Resul		:	Rabbit No skin irritatior	1
Magn	esium chloride:			
Speci		:		uman epidermis (RhE)
Metho Rema		:) No. 440/2008, Annex, B.46 from similar materials
Resul	t	:	No skin irritatior	ı



VersionRevision Date:SDS Number:Date of last issue: 04.04.20235.130.09.20237665398-00008Date of first issue: 10.12.2020	
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4-Chloro-3-methylphenol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Boric acid:

Result Remarks Irritation to eyes, reversing within 21 daysBased on national or regional regulation.

Magnesium chloride:

Species :	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Remarks :	Based on data from similar materials

4-Chloro-3-methylphenol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Boric acid:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Magnesium chloride:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative



Versio 5.1	on	Revision Date: 30.09.2023		9S Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020			
R	Remark	S	: Based on data from similar materials					
T E S	4-Chloro-3-methylphenol: Test Type Exposure routes Species Assessment		 Maximisation Test Skin contact Guinea pig Probability or evidence of low to moderate skin sensitisat 					
,,	00000	non	•	rate in humans				
С	hronic	c toxicity						
		ell mutagenicity sified based on availa	ble	information.				
		nents:						
	Soric a Genoto	cid: kicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)			
				Test Type: In vitro Result: equivocal	mammalian cell gene mutation test			
				Test Type: Chrom Result: negative	osome aberration test in vitro			
G	Senoto	kicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Result: negative				
N	lagnes	sium chloride:						
	-	kicity in vitro	:	Test Type: In vitro Result: negative	mammalian cell gene mutation test			
				Method: OECD To Result: negative	osome aberration test in vitro est Guideline 473 on data from similar materials			
				Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)			
		o-3-methylphenol: kicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)			



ersion .1	Revision Date: 30.09.2023	SDS Number: 7665398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
	nogenicity assified based on avai	able information.	
<u>Comp</u>	oonents:		
	acid:		
	cation Route sure time	: Mouse : Ingestion : 103 weeks : negative	
Magn	esium chloride:		
	cation Route sure time t	: Mouse : Ingestion : 18 Months : negative : Based on data	a from similar materials
-	oductive toxicity damage fertility. May da	mage the unborn cl	nild.
<u>Com</u> p	oonents:		
	acid: s on fertility	Species: Rat	nree-generation reproduction toxicity study oute: Ingestion /e
Effect ment	s on foetal develop-	Species: Rabl	oute: Ingestion
Repro sessn	oductive toxicity - As- nent	ity, based on a	e of adverse effects on sexual function and fer animal experiments., Clear evidence of adverse velopment, based on animal experiments.
Magn	esium chloride:		
-	s on fertility	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ive sed on data from similar materials
Effect ment	s on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ive
		10 / 1	6



	Revision Date: 30.09.2023	SDS Number: 7665398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
		Remarks: Base	ed on data from similar materials
4-Chl	oro-3-methylphenol:		
	s on fertility		e-generation reproduction toxicity study
		Species: Rat	to to confer
		Application Rou Result: negativ	
Effect	s on foetal develop-	: Test Type: Rep	production/Developmental toxicity screening
ment		test Species: Rat	
		Application Rou	ute: Ingestion
		Result: negativ	
STOT	- single exposure		
	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
4-Chl	oro-3-methylphenol:		
Asses	ssment	: May cause resp	piratory irritation.
STOT	- repeated exposure	2	
Not cl Repe	lassified based on ava		
Not cl Repe <u>Com</u>	lassified based on ava ated dose toxicity conents:		
Not cl Repe <u>Comp</u> Boric	lassified based on ava ated dose toxicity ponents: acid:	ilable information.	
Not cl Repe <u>Comp</u> Boric Speci	lassified based on ava ated dose toxicity <u>conents:</u> acid: es	ilable information. : Rat	
Not cl Repe <u>Comp</u> Boric	lassified based on ava ated dose toxicity <u>conents:</u> acid: es EL	ilable information. : Rat : 100 mg/kg	
Not cl Repe Comp Boric Speci NOAE LOAE Applic	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion	
Not cl Repe Comp Boric Speci NOAE LOAE Applic	lassified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL	ilable information. : Rat : 100 mg/kg : 334 mg/kg	
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expos	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion	
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expose Magn Speci	assified based on ava ated dose toxicity <u>ponents:</u> acid: es EL EL cation Route sure time esium chloride: es	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr : Rat	
Not cl Repe Boric Speci NOAE LOAE Applic Expose Magn Speci NOAE	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route sure time es es EL	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr : Rat : 308 mg/kg	
Not cl Repe Boric Speci NOAE LOAE Applic Expos Magn Speci NOAE LOAE	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route sure time es EL EL EL	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr : Rat : 308 mg/kg : 1,600 mg/kg	
Not cl Repe Boric Speci NOAE LOAE Applic Expos Magn Speci NOAE LOAE Applic	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route sure time es EL EL EL cation Route EL EL cation Route	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr : Rat : 308 mg/kg : 1,600 mg/kg : Ingestion	
Not cl Repe Boric Speci NOAE LOAE Applic Expos Magn Speci NOAE LOAE Applic	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route sure time es EL EL cation Route EL EL cation Route sure time	ilable information. : Rat : 100 mg/kg : 334 mg/kg : Ingestion : 2 yr : Rat : 308 mg/kg : 1,600 mg/kg : Ingestion : 90 Days	from similar materials
Not cl Repe Boric Speci NOAE LOAE Applic Expos NOAE LOAE Applic Expos Rema	assified based on ava ated dose toxicity <u>conents:</u> acid: es EL EL cation Route sure time es EL EL cation Route EL EL cation Route sure time	 ilable information. Rat 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 308 mg/kg 1,600 mg/kg Ingestion 90 Days Based on data 	from similar materials
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expos NOAE LOAE Applic Expos Rema 4-Chl Speci	assified based on ava ated dose toxicity <u>ponents:</u> acid: es EL EL cation Route sure time es EL EL cation Route sure time arks oro-3-methylphenol: es	 ilable information. Rat 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 308 mg/kg 1,600 mg/kg Ingestion 90 Days Based on data Rat Rat 	from similar materials
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expos Rema Applic Expos Rema Applic Expos Rema	assified based on avainated dose toxicity <u>oonents:</u> acid: es EL EL cation Route sure time es EL cation Route sure time arks oro-3-methylphenol: es EL es EL	 ilable information. Rat 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 308 mg/kg 1,600 mg/kg Ingestion 90 Days Based on data Rat Rat Rat 200 mg/kg 	from similar materials
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expos Rema Applic Expos Rema Applic Expos Rema	assified based on avainated dose toxicity <u>oonents:</u> acid: es EL EL Cation Route sure time resium chloride: es EL Cation Route sure time arks oro-3-methylphenol: es EL EL EL Cation Route Sure time arks	 ilable information. Rat 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 308 mg/kg 1,600 mg/kg Ingestion 90 Days Based on data Rat 200 mg/kg 400 mg/kg 	from similar materials
Not cl Repe Comp Boric Speci NOAE LOAE Applic Expos Rema Applic Expos Rema Applic Expos Rema	assified based on avainated dose toxicity <u>oonents:</u> acid: es EL EL cation Route sure time es EL cation Route sure time arks oro-3-methylphenol: es EL es EL	 ilable information. Rat 100 mg/kg 334 mg/kg Ingestion 2 yr Rat 308 mg/kg 1,600 mg/kg Ingestion 90 Days Based on data Rat Rat Rat 200 mg/kg 	from similar materials



Calcium / Magnesium Chloride Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	7665398-00008	Date of first issue: 10.12.2020

Aspiration toxicity

Not classified based on available information.

Section 12: Ecological information

Ecotoxicity

Components:

Boric acid:	
Taulalta ta fiala	

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 fish (Chronic tox- icity)	:	NOEC (Danio rerio (zebra fish)): 6.4 mg/l Exposure time: 34 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 10.8 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC10: 35.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Magnesium chloride:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 2,119.3 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 548.4 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h



Version 5.1	Revision Date: 30.09.2023		DS Number: 65398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
			Method: OECD T	est Guideline 201
aqua	city to daphnia and other tic invertebrates (Chron-	:	EC10 (Daphnia m Exposure time: 21	nagna (Water flea)): 321 mg/l I d
ic tox Toxic	city) Sity to microorganisms	:	NOEC: > 900 mg, Exposure time: 3 Method: OECD T	h
4-Ch	loro-3-methylphenol:			
Toxic	city to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 917 μg/l δ h
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxic plant	sity to algae/aquatic s	:	ErC50 (Chlorella Exposure time: 72 Method: OECD T	
			EC10 (Chlorella p Exposure time: 72 Method: OECD T	
	actor (Acute aquatic tox-	:	1	
	city to daphnia and other tic invertebrates (Chron- ricity)	:	NOEC (Daphnia r Exposure time: 2 ⁻ Method: OECD T	
Toxic	city to microorganisms	:	EC50: 22.86 mg/l Exposure time: 60	
Pers	istence and degradabili	ty		
<u>Com</u>	ponents:			
	loro-3-methylphenol: egradability	:	Result: Readily bi Biodegradation: 7 Exposure time: 18 Method: OECD T	78 % 5 d
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	c acid: ccumulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): <= 3.2



Version 5.1	Revision Date: 30.09.2023	SDS Number: 7665398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
		Method: OE	CD Test Guideline 305
	ion coefficient: n- ol/water	: log Pow: -1.0	09
4-Chl	oro-3-methylphenol:		
Bioac	cumulation		orinus carpio (Carp) ation factor (BCF): 5.5 - 13
	ion coefficient: n- ol/water	: log Pow: 0.4	77
Mobi	lity in soil		
No da	ata available		
Othe	r adverse effects		
No da	ata available		

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number	:	Not applicable



5.1	Revision Date: 30.09.2023	SDS Number: 7665398-00008	Date of last issue: 04.04.2023 Date of first issue: 10.12.2020
Class Subsidia Packing Labels EmS Co Marine	group ode pollutant	 Not applicable 	
-	licable for product a	-	RPOL 73/78 and the IBC Code
	al Regulations		
Class Subsid Packin Labels	mber shipping name iary risk g group	 Not applicable 	e e e e
Special Not app	precautions for u	ser	

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

Section 16: Other information		
IECSC	:	not determined
AICS	:	not determined
DSL	:	not determined

Revision Date	:	30.09.2023
Further information		
Sources of key data used to compile the Safety Data Sheet	÷	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
5.1	30.09.2023	7665398-00008	Date of first issue: 10.12.2020

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average Short-term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.

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