

Versio 4.2			S Number: 954-00021	Date of last issue: 30.09.2023 Date of first issue: 06.01.2016
	ON 1: IDENTIFICATION roduct name	:	Guanidine Hydro	chloride Formulation
Μ	anufacturer or supplier's d	etai	ls	
C	ompany	:	MSD	
Ad	ddress	:		el 1/26 Talavera Rd NSW, Australia 2113
Te	elephone	:	1 800 033 461	
Er	nergency telephone number	:	Poisons Informat	ion Centre: Phone 13 11 26
E	mail address	:	EHSDATASTEW	/ARD@msd.com
R	ecommended use of the ch	emi	ical and restrictio	ons on use
	ecommended use estrictions on use	:	Pharmaceutical Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Specific target organ toxicity - repeated exposure	:	Category 1 (Nervous system, Bone marrow, Kidney)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H372 Causes damage to organs (Nervous system, Bone mar- row, Kidney) through prolonged or repeated exposure.



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4.2		438954-00021 Prevention: P260 Do not b P264 Wash sk P270 Do not e P280 Wear pro Response: P301 + P312 + CENTER/ doct P302 + P352 I P305 + P351 + for several min easy to do. Co	Date of first issue: 06.01.2016 reathe dust. in thoroughly after handling. at, drink or smoke when using this product. otective gloves/ eye protection/ face protection. - P330 IF SWALLOWED: Call a POISON for if you feel unwell. Rinse mouth. F ON SKIN: Wash with plenty of water. - P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and
		tion. P337 + P313 I tention.	f skin irritation occurs: Get medical advice/ atten- f eye irritation persists: Get medical advice/ at- ake off contaminated clothing and wash it before
		Disposal:	of contents/ container to an approved waste

Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 60
Guanidinium chloride	50-01-1	>= 30 -< 60
Silicon dioxide	7631-86-9	< 10
Magnesium stearate	557-04-0	< 10

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 if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.



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In cas	se of eye contact	Wash Thore : In ca for at	se of contac least 15 mir	fore reuse. shoes before reuse. t, immediately flush eyes with plenty of water
lf swa	allowed	Get r : If swa so by Get r	nedical atter allowed, DO medical pe nedical atter	tion. NOT induce vomiting unless directed to do sonnel.
	important symptoms effects, both acute and red	Neve : Harm Caus Caus Caus	r give anythi iful if swallov es skin irrita es serious e es damage	ng by mouth to an unconscious person. ved. tion.
Prote	ection of first-aiders	and u	Aid respond ise the recoi	ers should pay attention to self-protection, mmended personal protective equipment
Notes	s to physician			al for exposure exists (see section 8). cally and supportively.
SECTION	5. FIREFIGHTING MEA	SURES		
Suita	ble extinguishing media	Alcoł Carb	r spray iol-resistant on dioxide ((

		Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Metal 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.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-



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geno	cy procedures		tective equipment	recommendations (see section 8).
Envi	ronmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	nods and materials for ainment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and 1	f dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. 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.
Conditions for safe storage	 When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep in properly labelled containers. Store in accordance with the particular national regulations.



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 Materials to avoid
 : Do not store with the following product types:

 Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Guanidinium chloride	50-01-1	TWA	600 µg/m3 (OEB 2)	Internal
Silicon dioxide	7631-86-9	TWA (Res- pirable dust)	2 mg/m3	AU OEL
Magnesium stearate	557-04-0	TWA	10 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

Components with workplace control parameters

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipment	
Respiratory protection :	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type
Material :	Chemical-resistant gloves
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Eye protection :	Wear the following personal protective equipment:



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Skin a	nd body protection	:	resistance data an potential. Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
SECTION	9. PHYSICAL AND CHI	ЕМІС	CAL PROPERTIES	S
Appea	rance	:	powder	
Colour		:	No data available	e
Odour		:	No data available	e
Odour	Threshold	:	No data available	e
рН		:	No data available	e
Melting	g point/freezing point	:	No data available	9
Initial t range	poiling point and boiling	:	No data available	9
Flash	point	:	Not applicable	
Evapo	ration rate	:	Not applicable	
Flamm	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- eans.
Flamm	nability (liquids)	:	Not applicable	
	explosion limit / Upper ability limit	:	No data available	9
	explosion limit / Lower ability limit	:	No data available	e
Vapou	r pressure	:	Not applicable	
Relativ	ve vapour density	:	Not applicable	
Relativ	ve density	:	No data available	9
Densit	у	:	No data available	e
	lity(ies) ter solubility	:	No data available	e
	on coefficient: n-	:	Not applicable	
	l/water gnition temperature	:	No data available	9





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Deco	mposition temperature	: No data available	
Visco Vi	sity scosity, kinematic	: Not applicable	
Explo	sive properties	: Not explosive	
Oxidi	zing properties	: The substance or mixture is r	not classified as oxidizing.
Moleo	cular weight	: No data available	
	cle characteristics cle size	: No data available	
SECTION	10. STABILITY AND R	ACTIVITY	

Reactivity : Not classified as a reactivity hazard. Chemical stability Stable under normal conditions. : Possibility of hazardous reac- : May form explosive dust-air mixture during processing, hantions dling or other means. Can react with strong oxidizing agents. Conditions to avoid : Heat, flames and sparks. Avoid dust formation. Incompatible materials 2 Oxidizing agents Hazardous decomposition No hazardous decomposition products are known. : products

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,330 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



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_			
<u>Comp</u>	oonents:		
Cellul			
Acute	oral toxicity	: LD50 (Rat)	: > 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat) Exposure ti Test atmos	
Acute	dermal toxicity	: LD50 (Rabl	bit): > 2,000 mg/kg
Guani	idinium chloride:		
Acute	oral toxicity	: LD50 (Rat)	: 474.6 mg/kg
		LD50 (Mou	se): 571 mg/kg
Acute	inhalation toxicity		
Acute	dermal toxicity		bit): > 2,000 mg/kg It: The substance or mixture has no acute derma
Silico	n dioxide:		
Acute	oral toxicity		: > 5,000 mg/kg ECD Test Guideline 401
Acute	inhalation toxicity		me: 4 h phere: dust/mist it: The substance or mixture has no acute inhala
Acute	dermal toxicity	: LD50 (Rabl	oit): > 5,000 mg/kg
Magn	esium stearate:		
-	oral toxicity	Method: OE Assessmer icity	: > 2,000 mg/kg ECD Test Guideline 423 ht: The substance or mixture has no acute oral to Based on data from similar materials
Acute	dermal toxicity		bit): > 2,000 mg/kg Based on data from similar materials

Causes skin irritation.



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Com	ponents:			
Guan	nidinium chloride:			
Spec	ies	:	Rabbit	
Resu	lt	:	Skin irritation	
Silico	on dioxide:			
Spec		:	Rabbit	
Meth		:	OECD Test Gui	
Resu	lt	:	No skin irritation	
-	nesium stearate:			
Spec		:	Rabbit	
Resu Rema		:	No skin irritation	rom similar materials
Reine		•	Dased on data h	ion sinna materiais
	ous eye damage/eye		on	
Caus	es serious eye irritatio	on.		
<u>Com</u>	ponents:			
Guan	idinium chloride:			
Resu		:		, reversing within 21 days
Rema	arks	:	Based on nation	al or regional regulation.
Silico	on dioxide:			
Spec		:	Rabbit	
Resu		:	No eye irritation	
Metho	od	:	OECD Test Gui	deline 405
Magr	nesium stearate:			
Spec		:	Rabbit	
Resu		:	No eye irritation	
Rema	arks	:	Based on data f	rom similar materials
Resp	iratory or skin sensi	itisatio	on	
	sensitisation			
Not c	lassified based on ava	ailable	information.	
Resp	iratory sensitisation	1		
-	lassified based on ava		information.	
Com	ponents:	-		
	nidinium chloride:			
Teet			Buchler Test	



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Resul	lt	:	negative	
Magn	esium stearate:			
Test			Maximisation T	est
	sure routes		Skin contact	
Speci Metho			Guinea pig OECD Test Gu	uideline 106
Resul			negative	
Rema			-	from similar materials
Chro	nic toxicity			
Germ	cell mutagenicity			
	lassified based on av	ailable i	nformation.	
	oonents:			
Cellu				
Geno	toxicity in vitro		Result: negativ	cterial reverse mutation assay (AMES) e
			Test Type: In v Result: negativ	itro mammalian cell gene mutation test e
Geno	toxicity in vivo		Test Type: Mai cytogenetic as Species: Mous Application Ro Result: negativ	e ute: Ingestion
Guan	idinium chloride:			
	toxicity in vitro			cterial reverse mutation assay (AMES)) Test Guideline 471 re
			Test Type: Chr Result: negativ	romosome aberration test in vitro
Silico	on dioxide:			
Geno	toxicity in vitro			cterial reverse mutation assay (AMES) D Test Guideline 471 re
Geno	toxicity in vivo			



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Magn	nesium stearate:			
-	toxicity in vitro	:	Result: negativ Remarks: Bas	vitro mammalian cell gene mutation test ve ed on data from similar materials romosome aberration test in vitro
			Method: OECI Result: negativ	D Test Guideline 473
			Result: negativ	cterial reverse mutation assay (AMES) ve ed on data from similar materials
	i nogenicity lassified based on ava	ailable i	nformation.	
Com	ponents:			
Cellu	lose:			
	cation Route sure time		Rat Ingestion 72 weeks	
Resu	IL	•	negative	
Silico	on dioxide:			
	cation Route sure time	::	Rat Ingestion 103 weeks negative	
Repro	oductive toxicity			
Not c	lassified based on ava	ailable i	nformation.	
<u>Com</u>	ponents:			
Cellu				
Effect	ts on fertility	:	Test Type: On Species: Rat Application Ro Result: negativ	
Effect ment	ts on foetal develop-	:	Test Type: Fer Species: Rat Application Ro Result: negativ	
Guan	idinium chloride:			
Effect ment	ts on foetal develop-	:	Test Type: Err Species: Rat	bryo-foetal development
			11 / 1	8



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		Application Ro Method: OECI Result: negativ) Test Guideline 414
•	on dioxide: ts on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	5
-	nesium stearate: ets on fertility	reproduction/d Species: Rat Application Ro Method: OECE Result: negativ) Test Guideline 422
Effec ment	ts on foetal develop-	Species: Rat Application Ro Result: negativ	

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Nervous system, Bone marrow, Kidney) through prolonged or repeated exposure.

Components:

Guanidinium chloride:

Exposure routes	: Ingestion
Target Organs	: Nervous system, Kidney, Bone marrow
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Cellulose:

Species	:	Rat
NOAEL	:	>= 9,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days



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Guan	idinium chloride:			
Speci		:	Rat	
NOAE	EL cation Route	:	100 mg/kg Ingestion	
Expos	sure time	:	90 Days	
Metho	bd	:	OECD Test Guide	eline 408
Silico	on dioxide:			
Speci		:	Rat	
AON Applic	zL cation Route		1.3 mg/m3 inhalation (dust/m	ist/fume)
	sure time	:	13 Weeks	
Magn	esium stearate:			
Speci		:	Rat	
NOAE	L Cation Route	:	> 100 mg/kg Ingestion	
	sure time	÷	90 Days	
Rema		:	Based on data fro	m similar materials
Aspir Not cl	assified based on availa	ble	information.	
Not cl Expei	rience with human exp			
Not cl Exper Comp	rience with human exp ponents:			
Not cl Exper Comp Guan	rience with human exp <u>ponents:</u> idinium chloride:		Ire	
Not cl Exper Comp Guan Ingest	r ience with human exp ponents: idinium chloride: tion	osı :	ire Symptoms: tinglin	g, numbness, anorexia, Diarrhoea
Not cl Exper Comp Guan Ingest	rience with human exp <u>ponents:</u> idinium chloride:	osı :	ire Symptoms: tinglin	g, numbness, anorexia, Diarrhoea
Not cl Exper Comr Guan Ingest	r ience with human exp ponents: idinium chloride: tion	osı :	ire Symptoms: tinglin	g, numbness, anorexia, Diarrhoea
Not cl Exper Comr Guan Ingest ECTION Ecoto	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO	osı :	ire Symptoms: tinglin	ıg, numbness, anorexia, Diarrhoea
Not cl Exper Comr Guan Ingest ECTION Ecoto	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents:	osı :	ire Symptoms: tinglin	g, numbness, anorexia, Diarrhoea
Not cl Exper Comp Guan Ingest ECTION Ecoto <u>Comp</u> Cellul	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents:	osı :	Ire Symptoms: tinglin MATION	ipes (Japanese medaka)): > 100 mg/l
Not cl Exper Comp Guan Ingest ECTION Ecoto <u>Comp</u> Cellul	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO pxicity ponents: lose:	osı :	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish	osı :	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l } h
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish idinium chloride:	osu : DRM	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48 Remarks: Based	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish	osu : DRM	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48 Remarks: Based	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials idus (Golden orfe)): 1,758 mg/l
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici Guan Toxici	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish idinium chloride: ity to fish	osu : DRM :	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48 Remarks: Based LC50 (Leuciscus Exposure time: 48 EC50 (Daphnia m	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials idus (Golden orfe)): 1,758 mg/l 3 h agna (Water flea)): 70.2 mg/l
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici Guan Toxici	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish idinium chloride: ity to fish	osu : DRM :	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48 Remarks: Based LC50 (Leuciscus Exposure time: 48 EC50 (Daphnia m Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials idus (Golden orfe)): 1,758 mg/l 3 h agna (Water flea)): 70.2 mg/l 3 h
Not cl Exper Guan Ingest ECTION Ecoto Comp Cellul Toxici Guan Toxici aquat	rience with human exp ponents: idinium chloride: tion 12. ECOLOGICAL INFO ponents: lose: ity to fish idinium chloride: ity to fish	osu : DRM :	Ire Symptoms: tinglin MATION LC50 (Oryzias lat Exposure time: 48 Remarks: Based LC50 (Leuciscus Exposure time: 48 EC50 (Daphnia m Exposure time: 48 Remarks: Based	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials idus (Golden orfe)): 1,758 mg/l 3 h agna (Water flea)): 70.2 mg/l



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	plants			mg/l Exposure time: 72 Method: Directive	2 h 67/548/EEC, Annex V, C.3.
				mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 6.3 ? h 67/548/EEC, Annex V, C.3.
	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 35	es promelas (fathead minnow)): 181 mg/l 5 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21	nagna (Water flea)): 2.9 mg/l d on data from similar materials
	Toxicity	to microorganisms	:	EC10 (Pseudomo Exposure time: 18	nas putida): 7,125 mg/l 3 h
	Silicon	dioxide:			
	Toxicity		:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				mg/l Exposure time: 72 Method: OECD Te	
	Magne	sium stearate:			
	Toxicity		:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	Exposure time: 47 Test substance: V	agna (Water flea)): > 1 mg/l ' h Vater Accommodated Fraction 67/548/EEC, Annex V, C.2.



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			Remarks: Based No toxicity at the	on data from similar materials limit of solubility
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7 Test substance: \ Method: OECD T	Water Accommodated Fraction Test Guideline 201 on data from similar materials
			mg/l Exposure time: 7 Test substance: \ Method: OECD T	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction est Guideline 201 on data from similar materials
Toxici	ty to microorganisms	:	Exposure time: 1 Test substance: \	onas putida): > 100 mg/l 6 h Water Accommodated Fraction on data from similar materials
Persis	stence and degradabi	lity		
<u>Comp</u>	onents:			
Cellul	ose:			
Biode	gradability	:	Result: Readily b	iodegradable.
	idinium chloride: gradability	:	Result: Not readil Biodegradation: Exposure time: 5 Method: OECD T	0%
-	esium stearate: gradability	:	Result: Not biode Remarks: Based	gradable on data from similar materials
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitio	i dinium chloride: on coefficient: n- ol/water	:	log Pow: < -1.7	
-	esium stearate: on coefficient: n-	:	log Pow: > 4	



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octar	nol/water			
Mobi	ility in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			
SECTION	13. DISPOSAL CON	SIDERATIONS		
Disp	osal methods			
Wast	e from residues	· Do not dispose	e of waste into sewer	

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 Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
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 Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons : Schedule 5 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)

2

Prohibition/Licensing Requirements

There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further informationRevision Date:Sources of key data used to:compile the Safety DataSheet	06.04.2024 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 abbreviations	s USA. ACGIH Threshold Limit Values (TLV)



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
4.2	06.04.2024	438954-00021	Date of first issue: 06.01.2016

AU OEL

: Australia. Workplace Exposure Standards for Airborne Contaminants.

		8-hour, time-weighted average Exposure standard - time weighted average
AU OEL / TWA	•	Exposure standard - time weighted average

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.

AU / EN