



	Version 11.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Posaconazole Injection Formulation
Supplier's company name, ac Company name of supplier	dr :	
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	•	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product						
Skin sensitisation	:	Category 1				
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Adrenal gland, Bone marrow, Kidney, Liver, Nerv- ous system, Reproductive organs)				
Short-term (acute) aquatic hazard	:	Category 3				
Long-term (chronic) aquatic hazard	:	Category 3				
GHS label elements						
Hazard pictograms	:					
Signal word	:	Warning				
Hazard statements	:	H317 May cause an allergic skin reaction. H373 May cause damage to organs (Adrenal gland, Bone mar- row, Kidney, Liver, Nervous system, Reproductive organs) through prolonged or repeated exposure if swallowed.				



Version 11.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
		H412 Harmful	to aquatic life with long lasting effects.
Preca	utionary statements	P272 Contam the workplace P273 Avoid re	preathe mist or vapours. inated work clothing should not be allowed out of a. elease to the environment. rotective gloves.
		P314 Get med P333 + P313 vice/ attention	IF ON SKIN: Wash with plenty of water. dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- Take off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
.betaCyclodextrin, sulfobutyl ethers, sodium salts	182410-00-0	>= 40 - < 50	
Posaconazole	171228-49-2	>= 1 - < 2.5	
Disodium EDTA, dihydrate	6381-92-6	< 0.1	2-1265, 2-1265

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice 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.



	Revision Date: 2024/09/28	-	0S Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16		
If swallowed Most important symptoms and effects, both acute and delayed		:	 Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Diarrhoea Fever Headache Nausea Vomiting May cause an allergic skin reaction. May cause damage to organs through prolonged or reper 			
	on of first-aiders physician	:	May cause damage to organs through prolonged or repeate exposure if swallowed. 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). Treat symptomatically and supportively.			
5. FIREFIGH	TING MEASURES					
Suitable	extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
Unsuitat media	ole extinguishing	:	None known.			
Specific fighting	hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.		
Hazardo ucts	ous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides			
Specific ods	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		
Special for firefig	protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.		

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and perso tective equipment recommendations (see section 8).	onal pro-
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.	



Version 11.0	Revision Date: 2024/09/28		S Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
			barriers). Retain and dispo	g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ned.
	ds and materials for nment and cleaning up	:	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the o mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDLI	NG AND STORAGE			
Handl	ling			
Techn	ical measures	:		measures under EXPOSURE RSONAL PROTECTION section.
	Total ventilation e on safe handling	:	Use only with add Do not get on ski Do not breathe m Do not swallow. Avoid contact wit Wash skin thorou Handle in accord practice, based of	equate ventilation. n or clothing. hist or vapours.
	ance of contact ne measures	::	sessment Do not eat, drink Take care to prevent environment. Oxidizing agents If exposure to cha flushing systems place. When using do n Contaminated wo workplace. Wash contamina The effective ope engineering cont	or smoke when using this product. vent spills, waste and minimize release to the



Version 11.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
Stora	age		
Cond	itions for safe storage		rly labelled containers.
Mate	rials to avoid		dance with the particular national regulations. vith the following product types: ng agents
Pack	aging material	: Unsuitable ma	terial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Posaconazole	171228-49-2	TWA	300 µg/m3 (OEB 2)	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 design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipme	nt
Respiratory protection Filter type Hand protection	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type
Material	: Chemical-resistant gloves
Eye protection Skin and body 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. Work uniform or laboratory coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Aqueous solution
Colour	: Colorless to pale yellow
Odour	: odourless



Version 11.0	Revision Date: 2024/09/28		S Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
	our Threshold	:	No data available	
Mel	ting point/freezing point	:	No data available	
	ing point, initial boiling ht and boiling range	:	No data available	
Flar	nmability (solid, gas)	:	Not applicable	
Flar	nmability (liquids)	:	No data available	,
ι	ver explosion limit and uppe Upper explosion limit / Up- per flammability limit			
	∟ower explosion limit / ∟ower flammability limit	:	No data available	
Flas	sh point	:	No data available	
Dec	composition temperature	:	No data available	
pН		:	2.6	
Eva	poration rate	:	No data available	
Auto	o-ignition temperature	:	No data available	
	cosity ∕iscosity, kinematic	:	No data available	
	ubility(ies) Water solubility	:	No data available	
	tition coefficient: n- anol/water	:	Not applicable	
Vap	our pressure	:	No data available	
	nsity and / or relative densit Relative density	у :	No data available	
[Density	:	1.15 g/cm ³	
Rela	ative vapour density	:	No data available	
Exp	losive properties	:	Not explosive	
Oxio	dizing properties	:	The substance of	mixture is not classified as oxidizing.



)	Revision Date: 2024/09/28		95 Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
Molec	ular weight	:	No data availa	ble
	-	-		
	le characteristics rticle size	:	Not applicable	
STABI	LITY AND REACTIVI	TY		
React	ivity	:	Not classified	as a reactivity hazard.
	ical stability	:		normal conditions.
Possil tions	oility of hazardous rea	IC- :	Can react with	strong oxidizing agents.
	tions to avoid	:	None known.	
	patible materials	:	Oxidizing age	
Hazar produ	dous decomposition	:	NO NAZARDOUS	decomposition products are known.
•	OLOGICAL INFORM			
			•	
Inform	nation on likely routes	of :	Inhalation	
expos	ure		Skin contact	
expos	ure		Skin contact Ingestion Eye contact	
Acute Not cl	toxicity assified based on ava	iilable	Ingestion Eye contact	
Acute Not cl <u>Com</u>	e toxicity assified based on ava ponents:		Ingestion Eye contact information.	calte
Acute Not cl <u>Comr</u> .beta.	e toxicity assified based on ava ponents: -Cyclodextrin, sulfol	butyl	Ingestion Eye contact information.	
Acute Not cl <u>Comr</u> .beta.	e toxicity assified based on ava ponents:	butyl	Ingestion Eye contact information.	
Acute Not cl <u>Comr</u> .beta. Acute	e toxicity assified based on ava ponents: -Cyclodextrin, sulfol	butyl	Ingestion Eye contact information.	
Acute Not cl Comr .beta. Acute Posa	e toxicity assified based on ava <u>ponents:</u> -Cyclodextrin, sulfol oral toxicity	butyl (:	Ingestion Eye contact information.	3,800 mg/kg
Acute Not cl Comr .beta. Acute Posa	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole:	butyl (:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8	3,800 mg/kg
Acute Not cl Comp .beta. Acute Acute	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole:	butyl (:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8	3,800 mg/kg 5,000 mg/kg > 3,000 mg/kg
Acute Not cl Comp .beta. Acute Acute	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity	butyl (: :	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8 LD50 (Mouse):	3,800 mg/kg 5,000 mg/kg > 3,000 mg/kg
Acute Not cl Comr .beta. Acute Acute Acute Disoc	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity lium EDTA, dihydrat	butyl (: : e:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8 LD50 (Mouse): LD50 (Rat): > 2	3,800 mg/kg 5,000 mg/kg > 3,000 mg/kg 2,000 mg/kg
Acute Not cl Comr .beta. Acute Acute Acute Disoc	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity lium EDTA, dihydrat oral toxicity	butyl (: : e:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8 LD50 (Mouse): LD50 (Rat): > 2 LD50 (Rat): > 2	3,800 mg/kg 5,000 mg/kg > 3,000 mg/kg 2,000 mg/kg 300 mg/kg
Acute Not cl Comr .beta. Acute Acute Acute Disoc	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity lium EDTA, dihydrat	butyl (: : e:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8 LD50 (Rat): > 2 LD50 (Rat): > 2 LD50 (Rat): > 2	3,800 mg/kg 5,000 mg/kg > 3,000 mg/kg 2,000 mg/kg 800 mg/kg le): > 1 mg/l
Acute Not cl Comr .beta. Acute Acute Acute Disoc	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity lium EDTA, dihydrat oral toxicity	butyl (: : e:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 8 LD50 (Rat): > 2 LD50 (Rat): > 2 LD50 (Rat): > 2	3,800 mg/kg 5,000 mg/kg 2,000 mg/kg 300 mg/kg le): > 1 mg/l 6 h
Acute Not cl Comr .beta. Acute Acute Acute Disoc	e toxicity assified based on ava <u>conents:</u> -Cyclodextrin, sulfol oral toxicity conazole: oral toxicity dermal toxicity lium EDTA, dihydrat oral toxicity	butyl (: : e:	Ingestion Eye contact information. ethers, sodium LD50 (Rat): > 8 LD50 (Rat): > 10 LD50 (Rat): > 1	3,800 mg/kg 5,000 mg/kg 2,000 mg/kg 300 mg/kg le): > 1 mg/l 6 h



e: amage/eye irrit based on availat e: ΓΑ, dihydrate: r skin sensitisa	ble information. Rabbit Mild eye irritation Rabbit No eye irritation	
e: amage/eye irrit based on availat c: ΓΑ, dihydrate: r skin sensitisa ation	 No skin irritation tation ble information. Rabbit Mild eye irritation Rabbit No eye irritation 	
e: amage/eye irrit based on availat c: ΓΑ, dihydrate: r skin sensitisa ation	 No skin irritation tation ble information. Rabbit Mild eye irritation Rabbit No eye irritation 	
amage/eye irrit based on availat c: ΓΑ, dihydrate: r skin sensitisa ation	 No skin irritation tation ble information. Rabbit Mild eye irritation Rabbit No eye irritation 	
based on availat c: ΓΑ, dihydrate: r skin sensitisa ntion	 No skin irritation tation ble information. Rabbit Mild eye irritation Rabbit No eye irritation 	
based on availat c: ΓΑ, dihydrate: r skin sensitisa ntion	tation ble information. : Rabbit : Mild eye irritation : Rabbit : No eye irritation	
based on availat c: ΓΑ, dihydrate: r skin sensitisa ntion	ble information. Rabbit Mild eye irritation Rabbit No eye irritation	
e: ΓΑ, dihydrate: r skin sensitisa ntion	: Rabbit : Mild eye irritation : Rabbit : No eye irritation ation	
e: ΓΑ, dihydrate: r skin sensitisa ntion	: Mild eye irritation : Rabbit : No eye irritation	
ΓΑ, dihydrate: r skin sensitisa ntion	: Mild eye irritation : Rabbit : No eye irritation	
r skin sensitisa Ition	: Mild eye irritation : Rabbit : No eye irritation	
r skin sensitisa Ition	: No eye irritation	
r skin sensitisa Ition	: No eye irritation	
ntion	: No eye irritation	
ntion		
ntion		
allergic skin rea	iction.	
ensitisation based on availat	ble information	
	tyl ethers, sodium sa	alte
	-	dence of skin sensitisation in humans
):		non Toot
es	: Magnusson-Klign : Skin contact	nan-Test
	: Guinea pig	
	: negative	
ΓA, dihydrate:		
	: Maximisation Tes	st
€S	: Skin contact	
		eline 406
	: negative	
		om similar materials
	es TA, dihydrate: es	: Guinea pig : negative TA, dihydrate: : Maximisation Tes es : Skin contact : Guinea pig : OECD Test Guid : negative

Not classified based on available information.



ersion I.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
0			
	oonents:		
	conazole:		
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: Chi Result: negativ	romosomal aberration /e
Geno	toxicity in vivo	: Test Type: Mic	
		Species: Mous Cell type: Bone	
			ute: Intravenous
		Result: negativ	
Disod	dium EDTA, dihydra	te:	
Geno	toxicity in vitro		cterial reverse mutation assay (AMES)
		Result: negativ	/e ed on data from similar materials
		Remarko. Bao	
		Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
			romosome aberration test in vitro
		Result: negativ Remarks: Base	/e ed on data from similar materials
Geno	toxicity in vivo	cytogenetic as	
		Species: Mous Application Ro	
			D Test Guideline 474
		Result: negativ	/e
Carci	nogenicity		
	lassified based on av	ailable information.	
	<u>oonents:</u> conazole:		
Speci		: Rat	
Applic	cation Route	: oral (feed)	
	sure time	: 2 Years	
Resu Rema		: positive : The mechanis	m or mode of action is not relevant in humans.
Speci		: Mouse	
	cation Route	: Oral	
Expos Resu	sure time It	: 2 Years : positive	
Rema		•	m or mode of action is not relevant in humans.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	22508-00025	Date of first issue: 2014/10/16

Disodium EDTA, dihydrate:

Species Application Route Exposure time Result Remarks	: Rat
Application Route	: Ingestion
Exposure time	: 103 weeks
Result	: negative
Remarks	: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

.beta.-Cyclodextrin, sulfobutyl ethers, sodium salts:

.betaCyclodextrin, suitobuty	ethers, sodium saits:
Effects on fertility :	Test Type: Fertility Species: Rat Application Route: Intravenous injection Result: negative
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Intravenous injection Result: negative
Posaconazole:	
Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat, male General Toxicity - Parent: NOAEL: 180 mg/kg body weight Symptoms: No effects on mating performance Result: negative
	Test Type: Fertility/early embryonic development Species: Rat, female General Toxicity - Parent: NOAEL: 45 mg/kg body weight Symptoms: No effects on mating performance Result: negative
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat, female Application Route: Oral Developmental Toxicity: LOAEL: 29 mg/kg body weight Result: Fetotoxicity, Malformations were observed.
	Test Type: Embryo-foetal development Species: Rabbit, female Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity
Reproductive toxicity - As- : sessment	Some evidence of adverse effects on development, based on animal experiments.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	22508-00025	Date of first issue: 2014/10/16

Disodium EDTA, dihydrate:

Effects on fertility	:	Test Type: Four-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Adrenal gland, Bone marrow, Kidney, Liver, Nervous system, Reproductive organs) through prolonged or repeated exposure if swallowed.

Components:

Posaconazole:

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

Disodium EDTA, dihydrate:

Exposure routes	: inhalation (dust/mist/fume)
Target Organs	: Respiratory Tract
Assessment	: May cause damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Posaconazole:

Species LOAEL Application Route Exposure time Target Organs	 Rat, female 5 mg/kg Oral 6 Months Adrenal gland, Lungs, Heart, Liver, spleen, Kidney, Ovary
Species LOAEL Application Route Exposure time Target Organs	 Dog 3 mg/kg Oral 392 Days Lungs, Liver, Brain, small intestine, Adrenal gland, Spinal cord, lymphoid tissue



Version 11.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
Expos		: Monkey : 15 mg/kg : Oral : 1 Months : Bone marrow,	Adrenal gland, Lymph nodes, Blood
Expos			Bone marrow, Kidney, Nervous system, s gland, Testis, lymphoid tissue
Expos		: Monkey : 180 mg/kg : Oral : 12 Months : Blood, Gastroi	ntestinal tract, spleen
Expos		: Monkey : 8 mg/kg : Intravenous : 1 Months : Cardio-vascula	ar system, Lungs, Adrenal gland, Blood
Speci NOAE Applic		e: : Rat : 500 mg/kg : Ingestion : 13 Weeks	
Speci LOAE Applio	es EL cation Route sure time	: Rat : 0.03 mg/l : inhalation (dus : 4 Weeks : OECD Test Gi	
Not cl Expe	ration toxicity lassified based on ava rience with human ex ponents:		

Posaconazole:

Ingestion

: Symptoms: Cough, Headache, Nausea, Vomiting, Fever, Liver effects, Rash, pruritis, Diarrhoea, hypertension, neutropenia, electrolyte imbalance



11.0 2024/09/28 22508-00025 Date of first issue: 2014/10/16	Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
	11.0	2024/09/28	22508-00025	Date of first issue: 2014/10/16

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

.betaCyclodextrin, sulfobut	yl (ethers, sodium salts:
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 220 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 96 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h
Posaconazole:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.95 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.276 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.509 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.041 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.206 mg/l Exposure time: 33 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.244 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (Natural microorganism): > 1,000 mg/l Exposure time: 3 h



rsion .0	Revision Date: 2024/09/28		0S Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
			Test Type: Respi Method: OECD T	ration inhibition est Guideline 209
Disod	ium EDTA, dihydrate:			
Toxici	ty to fish	:	Exposure time: 9	nacrochirus (Bluegill sunfish)): > 100 mg/l 6 h on data from similar materials
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 4 Method: DIN 384	
Toxici [;] plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 7 Method: OECD T	
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 25 mg/l 1 d
	ty to microorganisms	:	Exposure time: 3	sludge): > 500 mg/l 0 min est Guideline 209
II Persis	stence and degradabili	ity		
Comp	onents:	-		
Posad	conazole:			
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 20 Method: OECD T	50 %
Stabili	ty in water	:	Degradation half Method: OECD T	life (DT50): > 30 d est Guideline 111
Disod	lium EDTA, dihydrate:			
	gradability	:	Result: Not readil Biodegradation: Exposure time: 24 Method: OECD T	2 %



Version 11.0	Revision Date: 2024/09/28		DS Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
Bioa	ccumulative potential			
Com	ponents:			
	conazole:	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 20 est Guideline 305
	ion coefficient: n- nol/water	:	log Pow: 4.15	
	dium EDTA, dihydrate: ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials
	ion coefficient: n- nol/water	:	log Pow: -4.3	
Mobi	lity in soil			
Com	ponents:			
Distri	conazole: bution among environ- al compartments	:	log Koc: 5.52	
	rdous to the ozone laye	ər		
	r adverse effects ata available			
13. DISPO	SAL CONSIDERATION	IS		
-	osal methods		D : ()	
	e from residues aminated packaging	:	Do not dispose of Empty containers dling site for recy	ordance with local regulations. waste into sewer. should be taken to an approved waste han cling or disposal. pecified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION			
Inter	national Regulations			
Prope Class Subs	umber er shipping name	:	Not applicable Not applicable Not applicable Not applicable Not applicable	



Version 11.0	Revision Date: 2024/09/28	-	0S Number: 508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
Labels		:	Not applicable	
Enviror	nmentally hazardous	:	no	
ΙΑΤΑ-Ε	DGR			
UN/ID	No.	:	Not applicable	
Proper	shipping name	:	Not applicable	
Class		:	Not applicable	
	iary risk	:	Not applicable	
	g group	:	Not applicable	
Labels		:	Not applicable	
	g instruction (cargo	:	Not applicable	
aircraft Packin	g instruction (passen-	:	Not applicable	
ger airc		•	Not applicable	
-				
IMDG-			Net an Perchas	
UN nur		÷	Not applicable	
Class	shipping name	:	Not applicable Not applicable	
	iary risk	:	Not applicable	
	g group	:	Not applicable	
Labels	g g.oup		Not applicable	
EmS C	ode	÷	Not applicable	
	pollutant	:	Not applicable	
Transr	ort in bulk according	n to	Annex II of MARP	OL 73/78 and the IBC Code
•	plicable for product as			
	al Regulations	•		
	o section 15 for specifi	c na	tional regulation	

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

Chemical Substance Control Law

Priority Assessment Chemical Substance	
Chemical name	Number
Sodium salt of 2,2',2",2"'-(ethane-1,2-diyldinitrilo)tetraacetic acid	268

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable



/ersion 11.0	Revision Date: 2024/09/28	SDS Number: 22508-00025	Date of last issue: 2024/04/06 Date of first issue: 2014/10/16
	tances Prevented F	rom Impairment of H	ealth
on Ex	Ilar concerning Info kisting Chemicals ha pplicable		Is having Mutagenicity - Annex 2: Information
on No		rmation on Chemical naving Mutagenicity	Is having Mutagenicity - Annex 1: Informati
	tances Subject to b pplicable	e Notified Names	
Not a	tances Subject to b pplicable		
	and Eye Damage Su pplicable	ubstances for PPE Re	equirements (ISHL MO Art. 594-2)
tions		s (Article 577-2 of the	e Occupational Health and Safety Regula-
	nance on Preventior	of Hazards Due to S	Specified Chemical Substances
	nance on Preventior pplicable	n of Lead Poisoning	
	nance on Preventior pplicable	n of Tetraalkyl Lead F	Poisoning
	nance on Preventior pplicable	n of Organic Solvent	Poisoning
Subs	r cement Order of th tances) pplicable	e Industrial Safety ar	nd Health Law - Attached table 1 (Dangerou
	onous and Deleterio	us Substances Cont	rol Law
viron			s of Specific Chemical Substances in the E o the Management Thereof
-	Pressure Gas Safet	y Act	
-	osive Control Law pplicable		
	el Safety Law egulated as a danger	ous good	



Version 11.0	Revision Date: 2024/09/28	SDS Num 22508-00		te of last issue: 2024/04/06 te of first issue: 2014/10/16	
Aviat	tion Law				
Not re	egulated as a dangero	ous good			
Marir	ne Pollution and Sea	Disaster Pre	evention etc La	w	
Bulk	transportation	: Not cl	assified as noxi	ous liquid substance	
Pack	transportation	: Not cl	assified as mari	ne pollutant	
Narc	otics and Psychotro	oics Control	Act		
	otic or Psychotropic R	aw Material (I	Export / Import F	Permission)	
Spec	pplicable ific Narcotic or Psycho pplicable	otropic Raw M	laterial (Export /	(Import permission)	
	e Disposal and Publ strial waste	ic Cleansing	Law		
The c	components of this p	roduct are r	eported in the	following inventories:	
AICS		: not de	etermined		
DSL		: not de	etermined		
IECS	С	: not de	etermined		

16. OTHER INFORMATION

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/

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

Date format : yyyy/mm/dd

Full text of other abbreviations

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 Or-



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	22508-00025	Date of first issue: 2014/10/16

ganisation 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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