



Version 7.1	Revision Date: 2023/09/26		S Number: 502-00022	Date of last issue: 2023/03/20 Date of first issue: 2014/10/16
1. PROD	UCT AND COMPANY IDE	ENT	IFICATION	
Proc	luct name	:	Posaconazol	e Injection Formulation
Man	ufacturer or supplier's d	eta	ils	
Corr	ipany	:	MSD	
Add	ress	:	126 E. Lincol Rahway, Nev	n Avenue v Jersey U.S.A. 07065
Tele	phone	:	908-740-400	0
Eme	rgency telephone number	:	1-908-423-60	000
E-m	ail address	:	EHSDATAST	EWARD@msd.com
Rec	ommended use of the ch	nem	ical and restr	ictions on use
	ommended use trictions on use	:	Pharmaceution Not applicabl	
2. HAZA	RDS IDENTIFICATION			
СНо	Classification			

GHS Classification Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Adrenal gland, Bone marrow, Kidney, Liver, Nerv- ous system, Reproductive organs)
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. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:



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P260 Do not breathe mist or vapours.P272 Contaminated work clothing should not be allowed out of the workplace.P273 Avoid release to the environment.P280 Wear protective gloves.

#### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Disposal:

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

#### 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)
.betaCyclodextrin, sulfobutyl ethers, sodium salts	182410-00-0	>= 30 -< 60
Posaconazole	171228-49-2	>= 1 -< 2.5

#### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical ac vice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medica advice.</li> </ul>	
If inhaled	: If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and pler 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>	nty
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.	



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	and eff delayed Protect	nportant symptoms ects, both acute and d ion of first-aiders	:	May cause dama exposure if swalld First Aid responde and use the recor when the potentia	ergic skin reaction. ge to organs through prolonged or repeated owed. ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8). cally and supportively.
5. F	IREFIGI	HTING MEASURES			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C	
	Unsuita media	able extinguishing	:	Dry chemical None known.	
		c hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.
		lous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides	
	Specific ods	c extinguishing meth-	:	cumstances and f Use water spray f Remove undama so.	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
6. A	CCIDE	NTAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe hand	tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8).
	Enviror	nmental 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 se of contaminated wash water. should be advised if significant spillages
_		ds and materials for ment and cleaning up	:	For large spills, p ment to keep mat	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can
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		Clean up rema bent. Local or nation posal of this m employed in th mine which reg Sections 13 an	ore recovered material in appropriate container. ining materials from spill with suitable absor- nal regulations may apply to releases and dis- aterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.
Local	/Total ventilation		adequate ventilation.
Advic	e on safe handling	Do not breathe Do not swallow Avoid contact Wash skin tho Handle in acco practice, based sessment Do not eat, drii	
	itions for safe storage	: Keep in proper Store in accord	ly labelled containers. dance with the particular national regulations.
Mate	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: ig agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	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., 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.
		protect products, workers, and the environment.



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Personal protective equipment					
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Filter type Hand protection	:	Particulates type			
Material	:	Chemical-resistant gloves			

Eye 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.	S,
Skin and body protection Hygiene measures	<ul> <li>Work uniform or laboratory coat.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work ing place.</li> <li>When using do not eat, drink or smoke.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.</li> </ul>	k- he of it,

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	Colorless to pale yellow
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	2.6
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	)
,	Vapour	pressure	:	No data available	)
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	)
	Density		:	1.15 g/cm <sup>3</sup>	
:	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
					resisture is not closelfied on evidimine
	Oxidizir	ng properties	-		r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	3
	Particle	size	:	Not applicable	

#### **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.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact



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		Ingestion Eye contact	
Acut	e toxicity	,	
	lassified based on av ponents:	ailable information.	
.beta	Cyclodextrin, sulfo	obutyl ethers, sodiu	m salts:
Acute	e oral toxicity	: LD50 (Rat): >	> 8,800 mg/kg
Posa	iconazole:		
Acute	e oral toxicity	: LD50 (Rat): >	> 5,000 mg/kg
		LD50 (Mouse	e): > 3,000 mg/kg
Acute	e dermal toxicity	: LD50 (Rat): >	> 2,000 mg/kg
-	corrosion/irritation	ailable information.	
<u>Com</u>	ponents:		
Posa	iconazole:		
Spec Resu		: Rabbit : No skin irritat	tion
	ous eye damage/eye		
	lassified based on av	ailable information.	
	ponents:		
Posa Spec	i <b>conazole:</b> ies	: Rabbit	
Resu		: Mild eye irrita	ation
Resp	piratory or skin sens	itisation	
	sensitisation cause an allergic skin	reaction.	
	<b>biratory sensitisatior</b> classified based on av		
<u>Com</u>	ponents:		
.beta	Cyclodextrin, sulfo	butyl ethers, sodiu	m salts:
Asse	ssment	: Probability or	evidence of skin sensitisation in humans
Posa	iconazole:		
Test	Туре	: Magnusson-I	Kligman-Test
		7/~	15



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	re routes	: Skin contact	t
Species Result	5	: Guinea pig : negative	
	ell mutagenicity ssified based on av	ailable information.	
<u>Compo</u>	nents:		
Posaco	onazole:		
Genoto	xicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: ( Result: nega	Chromosomal aberration ative
Genoto	xicity in vivo	Species: Mo Cell type: Bo	
Not clas		ailable information.	
<u>Compo</u>			
	onazole:		
Species		: Rat	
	tion Route	: oral (feed)	
Exposu Result	re ume	: 2 Years : positive	
Remark	S		nism or mode of action is not relevant in human
Species	6	: Mouse	
	tion Route	: Oral	
Exposu	re time	: 2 Years	
Result		: positive	sion or mode of action is not relevant in house
Remark	S	: The mechan	nism or mode of action is not relevant in human
-	l <b>uctive toxicity</b> ssified based on av	ailable information.	
<u>Compo</u>	nents:		
.betaC	Cyclodextrin, sulfo	obutyl ethers, sodiu	um salts:
Effects	on fertility	: Test Type: F Species: Ra	t
		Application Result neg	Route: Intravenous injection

Result: negative



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Effe mer	cts on foetal develop- It	Species: Rat	coute: Intravenous injection
	aconazole: cts on fertility	Species: Rat General Toxi Symptoms: N Result: negat Test Type: Fe Species: Rat General Toxi	city - Parent: NOAEL: 180 mg/kg body weight lo effects on mating performance tive ertility/early embryonic development , female city - Parent: NOAEL: 45 mg/kg body weight lo effects on mating performance
Effe mer	cts on foetal develop- it	Species: Rat Application R Development Result: Fetot Test Type: E Species: Rab	coute: Oral tal Toxicity: LOAEL: 29 mg/kg body weight oxicity, Malformations were observed. mbryo-foetal development obit, female tal Toxicity: LOAEL: 40 mg/kg body weight
•	roductive toxicity - As- sment	: Some eviden animal exper	ce of adverse effects on development, based on iments.

#### 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 exposure.



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Rep	eated dose toxicity		
Con	nponents:		
Spe LOA App Exp		: Rat, female : 5 mg/kg : Oral : 6 Months : Adrenal glar	nd, Lungs, Heart, Liver, spleen, Kidney, Ovary
Exp		: Dog : 3 mg/kg : Oral : 392 Days : Lungs, Liver cord, lymph	r, Brain, small intestine, Adrenal gland, Spinal oid tissue
Exp		: Monkey : 15 mg/kg : Oral : 1 Months : Bone marro	w, Adrenal gland, Lymph nodes, Blood
Exp			nd, Bone marrow, Kidney, Nervous system, nus gland, Testis, lymphoid tissue
Exp		: Monkey : 180 mg/kg : Oral : 12 Months : Blood, Gast	rointestinal tract, spleen
Exp		: Monkey : 8 mg/kg : Intravenous : 1 Months : Cardio-vasc	ular system, Lungs, Adrenal gland, Blood

#### Aspiration toxicity

Not classified based on available information.

:

#### Experience with human exposure

#### **Components:**

#### Posaconazole:

Ingestion

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





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			electrolyte imbala	nce
ECOL		N		
		•		
	oxicity			
<u>Comp</u>	oonents:			
	-Cyclodextrin, sulfobu	tyl		
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): > 220 mg/l 6 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): > 96 mg/l 8 h
Toxic plants	ity to algae/aquatic	:	EC50 (Selenastru Exposure time: 72	um capricornutum (green algae)): > 100 m 2 h
Posa	conazole:			
Toxic	ity to fish	:	Exposure time: 9 Method: OECD T	chus mykiss (rainbow trout)): > 0.95 mg/l 6 h est Guideline 203 city at the limit of solubility
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.276 mg/l 8 h est Guideline 202
Toxic plants	ity to algae/aquatic	:	0.509 mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 2 h est Guideline 201
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 0.0 2 h est Guideline 201
	ctor (Acute aquatic tox-	:	1	
icity) Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	es promelas (fathead minnow)): 0.206 mg 3 d est Guideline 210
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): 0.244 mg/l 1 d est Guideline 211 city at the limit of solubility
M-Factoric	ctor (Chronic aquatic	:	1	



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Toxic	ity to microorganisms	:	Exposure time Test Type: Re	l microorganism): > 1,000 mg/l e: 3 h espiration inhibition D Test Guideline 209
Pers	istence and degradab	ility		
<u>Com</u>	ponents:			
Posa	iconazole:			
Biode	egradability	:	Biodegradatio Exposure time	
Stabi	lity in water	:		alf life (DT50): > 30 d D Test Guideline 111
Bioa	ccumulative potential			
Com	ponents:			
	conazole:	:	Bioconcentrat	omis macrochirus (Bluegill sunfish) ion factor (BCF): 20 D Test Guideline 305
	tion coefficient: n- nol/water	:	log Pow: 4.15	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	<b>Iconazole:</b> bution among environ- al compartments	:	log Koc: 5.52	
	<b>r adverse effects</b> 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.



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#### **14. TRANSPORT INFORMATION**

#### International Regulations

<b>UNRTDG</b> 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)		
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

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

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

# Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable





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Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Sub- stances						
Haza	ardous substances app	proved for use	: Not applicable			
Proh	ibited substances		: Not applicable			
Rest	ricted substances		: Not applicable			
	Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials					
	e of hazardous materia rol, Annex I	ls subject to distributic	on and : Not applicable			
	Type of hazardous materials subject to distribution and : Not applicable control, Annex II					
The components of this product are reported in the following inventories:						
AICS	3	: not determined	d			
DSL		: not determined	d			
IECS	SC	: not determined	d			

#### **16. OTHER INFORMATION**

Revision Date	:	2023/09/26
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	:	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



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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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