SAFETY DATA SHEET



Dorzolamide Formulation

Version 5.6	Revision Date: 30.09.2023		S Number: 972-00021	Date of last issue: 04.04.2023 Date of first issue: 07.11.2014		
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
Pro	duct name	:	Dorzolamide For	rmulation		
	nufacturer or supplier'	s detai :	ils MSD			
Ado	Iress	:	Rua Coronel Ber Cruzeiro - Sao P	nto Soares, 530 Paulo - Brazil CEP 12730-340		
Tel	ephone	:	908-740-4000			
Em	ergency telephone	:	1-908-423-6000			
E-n	nail address	:	EHSDATASTEW	VARD@msd.com		
	commended use of the			ons on use		
	commended use strictions on use	:	Pharmaceutical Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Not a hazardous substance or mixture.

GHS label elements in accordance with ABNT NBR 14725 Standard

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

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: Mixture
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Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Dorzolamide	130693-82-2	Acute toxicity (Oral), Category 4 Specific target organ toxicity - repeated exposure (Central nervous system, Gas- trointestinal tract, Bone, Blood, Bladder), Category 2	>= 1 -< 5



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SECTIO	ON 4. FIRST AID MEASUF	RES					
Ge	eneral advice	:	advice immediate	cident or if you feel unwell, seek medical ely. persist or in all cases of doubt seek medical			
lf i	nhaled	:	If inhaled, remove				
In case of skin contact		:	Get medical attention if symptoms occur. In case of contact, immediately flush skin with soap and plenty of water.				
In case of eye contact		:	Get medical attention if symptoms occur. 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 if symptoms occur. Rinse mouth thoroughly with water.				
Most important symptoms and effects, both acute and delayed		:	None known.				
	otection of first-aiders	:	and use the recor	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).			
No	otes to physician	:		cally and supportively.			
SECTIO	ON 5. FIRE-FIGHTING ME	ASL	JRES				
Suitable extinguishing media			Water spray Alcohol-resistant				

		Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Hydrogen chloride
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 fire-fighters	:	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
gency procedures		protective equipment recommendations (see section 8).

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Envir	onmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	ods and materials for ainment and cleaning up	:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national no disposal of this mo- employed in the co- determine which mo- Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. IS of this SDS provide information regarding itional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe mist or vapors.
		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure assessment
		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.
		When using do not eat, drink or smoke.
		Wash contaminated clothing before re-use.
		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.
Conditions for safe storage	:	
g-		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:
		Strong oxidizing agents
		Gases



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

				B 1		
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Dorzolamide	130693-82-2	TWA	10 µg/m3 (OEB 3)	Internal		
Dorzolamide	Further information		10 µg/113 (OEB 3)	Internal		
		Wipe limit	100 µg/100 cm ²	Internal		
		wipe infin		Internal		
Engineering measures :	technologies less quick cor All engineerin design and op protect produc Containment are required to	to control airborr nections). g controls should berated in accord cts, workers, and technologies sui o control at sour d to uncontrolled devices).	controls and manufactive concentrations (e.g d be implemented by dance with GMP princ the environment. table for controlling c ce and to prevent mig areas (e.g., open-fac	g., drip- facility ciples to ompounds gration of		
Personal protective equipmer	nt					
Respiratory protection : Filter type :	 If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type 					
Hand protection						
Material :	Chemical-resi	stant gloves				
Remarks:Eye protection:Skin and body protection:	Consider double gloving. 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. Additional body garments should be used based upon the					
	disposable su Use appropria	task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available



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	pН		:	5,6	
	Melting	point/freezing point	:	No data available	
	Initial bo range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	1
	Density		:	No data available	1
	Solubili Wate	ty(ies) er solubility	:	soluble	
		n coefficient: n-	:	No data available	•
	octanol/ Autoign	ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY



ersion .6	Revision Date: 30.09.2023		S Number: 972-00021	Date of last issue: 04.04.2023 Date of first issue: 07.11.2014				
Cherr Possi tions	Reactivity Chemical stability Possibility of hazardous reac- tions		Stable under Can react with	as a reactivity hazard. normal conditions. n strong oxidizing agents.				
Conditions to avoid Incompatible materials Hazardous decomposition products			 None known. Oxidizing agents No hazardous decomposition products are known. 					
ECTION	11. TOXICOLOGICAL	INFC	ORMATION					
	Information on likely routes of exposure		Inhalation Skin contact Ingestion Eye contact					
	e toxicity lassified based on availa	able	information.					
	Product: Acute oral toxicity		: Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method					
Com	ponents:							
Dorz	olamide:							
Acute	Acute oral toxicity		LD50 (Rat): 1.	927 mg/kg				
			LD50 (Mouse)	: 1.320 mg/kg				
Acute	e inhalation toxicity	:	Remarks: No o	data available				
Acute	e dermal toxicity	:	Remarks: No o	data available				
	corrosion/irritation lassified based on availa	able	information.					
	ous eye damage/eye irr lassified based on availa							
Com	ponents:							
Dorz	olamide:							
Speci Resu		:	Monkey Mild eye irritati	ion				
Resp	iratory or skin sensitiz	atio	n					
	sensitization lassified based on availa	able	information.					
	iratory sensitization	_						

Respiratory sensitization

Not classified based on available information.



rsion S	Revision Date: 30.09.2023	SDS Number: 28972-00021	Date of last issue: 04.04.2023 Date of first issue: 07.11.2014
Com	ponents:		
Dorz	olamide:		
Test	Туре	: Maximizati	on Test
	es of exposure	: Skin conta	
Speci Resu		: Guinea pig : Weak sens	
Resu	it.	. Weak sent	50261
Germ	n cell mutagenicity		
Not c	lassified based on av	ailable information.	
Com	ponents:		
Dorz	olamide:		
Geno	toxicity in vitro	: Test Type:	Chromosomal aberration
,		Result: ne	gative
		Test Type:	Alkaline elution assay
		Test system	m: rat hepatocytes
		Result: neg	gative
		Test Type:	In vitro mammalian cell gene mutation test
		Test system	m: Chinese hamster fibroblasts
		Result: neg	gative
		Test Type:	Bacterial reverse mutation assay (AMES)
		Result: neg	
Geno	toxicity in vivo	: Test Type:	Cytogenetic assay
	,	Species: N	louse
		Result: neg	gative
Carci	inogenicity		
	lassified based on av	vailable information.	
Com	ponents:		
Dorz	olamide:		
0			

Species Application Route Exposure time Result Remarks	:	Rat, male Oral 2 Years 20 mg/kg body weight negative The mechanism or mode of action may not be relevant in hu- mans.
Species Application Route Exposure time Result	:	Mouse Oral 21 month(s) negative

Reproductive toxicity

Not classified based on available information.



sion	Revision Date: 30.09.2023	SDS Number: 28972-00021	Date of last issue: 04.04.2023 Date of first issue: 07.11.2014		
<u>Comp</u>	oonents:				
Dorzo	blamide:				
Effects	s on fertility	: Test Type:	Fertility		
	·		at, male and female		
			Route: Oral		
			DAEL: 7,5 mg/kg body weight		
		Result. Ani	mal testing did not show any effects on fertility.		
Effects	s on fetal development		Development		
		Species: R	abolt Route: Oral		
			ental Toxicity: NOAEL: 1 mg/kg body weight		
			bryotoxic effects and adverse effects on the		
			ere detected only at high maternally toxic dose		
			Development		
		Species: R			
			Route: Oral ental Toxicity: LOAEL: 2,5 mg/kg body weight		
			bryotoxic effects and adverse effects on the		
			offspring were detected only at high maternally toxic doses		
STOT Not cla	assified based on availa -repeated exposure assified based on availa				
Not cla STOT Not cla <u>Comp</u>	assified based on availa -repeated exposure assified based on availa ponents:				
Not cla STOT Not cla Comp	assified based on availa -repeated exposure assified based on availa <u>ponents:</u> plamide:	ble information.			
Not cla STOT Not cla Comp Dorzo Targe	assified based on availa -repeated exposure assified based on availa conents: conents: conents: t Organs	uble information. : Central ner Bladder	rvous system, Gastrointestinal tract, Bone, Bloc		
Not cla STOT Not cla Comp Dorzo Targe	assified based on availa -repeated exposure assified based on availa <u>ponents:</u> plamide:	uble information. : Central ner Bladder	rvous system, Gastrointestinal tract, Bone, Bloc		
Not cla STOT Not cla Comp Dorzo Targe Asses	assified based on availa -repeated exposure assified based on availa conents: conents: conents: t Organs	ible information. : Central nei Bladder : May cause			
Not cla STOT Not cla Comp Dorzo Targe Asses Repea	assified based on availa repeated exposure assified based on availa conents: blamide: t Organs ssment	ible information. : Central nei Bladder : May cause	rvous system, Gastrointestinal tract, Bone, Bloc		
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E	NOAEL Exposure time Target Organs		:	0,05 mg/kg 1 y Gastrointestinal tract, Bone, Blood		
	Aspiration toxicity Not classified based on available information.					
E	xperie	ence with human exp	osu	ire		
<u>C</u>	compo	onents:				
)orzola Eye cor	amide: ntact	:	Symptoms: burning or stinging of the eye, Blurred vision, tear ing, asthenia, bitter taste, Nausea, dry mouth, Headache		
SECT	ION 12	2. ECOLOGICAL INFO	ORN	IATION		
E	cotox	icity				
<u>c</u>	compo	onents:				
D	orzola	amide:				
Т	oxicity	to fish	:	: LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/ Exposure time: 96 h		
		to daphnia and other invertebrates	: EC50 (Daphnia magna (Water flea)): 699 mg/l Exposure time: 48 h			
Т	Toxicity to microorganisms : EC50 (Natural microorganism): > 800 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		h ation inhibition			
Р	Persistence and degradability					
<u>c</u>	compo	onents:				
		amide: radability	:	Result: not rapidly Biodegradation: 5 Exposure time: 28 Method: OECD Te	5 % 3 d	
В	Bioacc	umulative potential				
<u>c</u>	compo	onents:				
Р		amide: n coefficient: n- /water	:	log Pow: 0,292		
		y in soil a available				

SAFETY DATA SHEET



Dorzolamide Formulation

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	er adverse effects ata available				
	13. DISPOSAL CON				
SECTION	TS. DISPUSAL CON	SIDERATIONS			
Disp	osal methods				
Was	te from residues		se of waste into sewer.		
Cont	aminated packaging	: Empty contai handling site	accordance with local regulations. ners should be taken to an approved waste for recycling or disposal. se specified: Dispose of as unused product.		
SECTION	I 14. TRANSPORT INF	FORMATION			
Intor	notional Degulations				
	national Regulations				
	TDG regulated as a dangero	us good			
	A-DGR regulated as a dangero	us good			
	G-Code egulated as a dangero	us good			
Tran	sport in bulk accordi	ng to Annex II of M	ARPOL 73/78 and the IBC Code		
Not a	Not applicable for product as supplied.				
Dom	estic regulation				
ANT Not i	T egulated as a dangero	us good			
Spee	cial precautions for us	ser			
Not a	applicable				
SECTION	15. REGULATORY IN	NFORMATION			
Safe mixt	-	nmental regulations	s/legislation specific for the substance or		
Natio	onal List of Carcinogeni ACH)	ic Agents for Human	s - : Not applicable		
Braz	il. List of chemicals con	ntrolled by the Feder	al : Not applicable		

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

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

Police



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SECTION 16. OTHER INFORMATION

Revision Date	: 3	0.09.2023
Date format	: d	d.mm.yyyy

Further information

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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 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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