

Version 1.7	Revision Date: 30.09.2023		S Number:Date of last issue: 04.04.20215552-00008Date of first issue: 16.03.202		
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION					
Product name		:	Lidocaine Hydrochloride Formulation		
Manu	facturer or supplier's	s detai	ls		
Comp	Company : MSD				
Address		:	Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340		
Telep	hone	:	: 908-740-4000		
Emergency telephone		:	1-908-423-6000		
E-mai	il address	:	: EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chemi	ical and restriction	ons on use	
Recommended use:Veterinary productRestrictions on use:Not applicable		ct			

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)
Lidocaine hydrochloride	6108-05-0	Acute toxicity (Oral), Category 3	>= 1 -< 5

SECTION 4. FIRST AID MEASURES



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If swallowed Most important symptoms		:	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. None known.						
	and effects, both acute and delayed Protection of first-aiders Notes to physician		:		No special precautions are necessary for first aid responders. Treat symptomatically and supportively.				
SEC	CTION 5	. FIRE-FIGHTING ME	ASL	JRES					
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical					
		able extinguishing	:	None known.					
	media Specifi fighting	c hazards during fire	:	Exposure to com	pustion products may be a hazard to health.				
		lous combustion prod-	:	Carbon oxides Chlorine compou Nitrogen oxides (
	Specifi ods	c extinguishing meth-	:	cumstances and Use water spray	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				
		l protective equipment fighters	:	necessary.	ed breathing apparatus for firefighting if tective equipment.				
SEC	CTION 6	. ACCIDENTAL RELE	AS	E MEASURES					
	tive eq	al precautions, protec- uipment and emer- procedures	:		ing advice (see section 7) and personal nent recommendations (see section 8).				
	Enviror	nmental 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				



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		disposal of thi employed in the determine whi Sections 13 and	Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.			
SECTION	7. HANDLING AND ST	ORAGE				
Tech	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.			
Loca	I/Total ventilation		adequate ventilation.			
	ce on safe handling	: Handle in accord practice, base assessment	ordance with good industrial hygiene and safety d on the results of the workplace exposure prevent spills, waste and minimize release to the			
Hygiene measures		: If exposure to flushing system place. When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.			
Conc	litions for safe storage	: Keep in prope				
Materials to avoid			vith the following product types:			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components CAS-No.		Value type (Form of exposure)	orm of ters / Permissible	
Lidocaine hydrochloride 6108-05-0		TWA	15 µg/m3	Internal
	Further information: DSEN			
		STEL	100 µg/m3 (OEB 3)	Internal
	Wipe limit		150 µg/100 cm 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. Containment technologies suitable for controlling compounds
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Perso	onal protective equip	nent				
Resp	Respiratory protection		No personal respiratory protective equipment normally required.			
Hand	Hand protection					
Ma	Material		Chemical-resistant gloves			
	Remarks Eye 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.			
Skin a	Skin and body protection :		Work uniform or laboratory coat. Additional body garments should be used based upon the 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	:	liquid
Color	:	colorless
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4,5 - 6,5
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
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

SAFETY DATA SHEET



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flam	mability limit					
Vapor pressure		: No data a	vailable			
Rela	ative vapor density	: No data a	vailable			
Rela	ative density	: No data a	vailable			
Der	sity	: No data a	vailable			
	ubility(ies) Water solubility	: No data a	: No data available			
	tition coefficient: n- anol/water	: Not applic	able			
	bignition temperature	: No data a	No data available			
Dec	composition temperature	: No data a	No data available			
	cosity /iscosity, kinematic	: No data a	vailable			
Exp	losive properties	: Not explos	sive			
Oxio	dizing properties	: The subst	ance or mixture is not classified as oxidizing.			
Mol	ecular weight	: No data a	vailable			
Par	ticle size	: Not applic	able			

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion
		Eye contact
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Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5.000 mg/kg



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			Method: Calculati	on method		
<u>c</u>	Components:					
L	Lidocaine hydrochloride:					
A	Acute oral toxicity : LD50 (Mouse): 292 mg/kg					
-	Skin corrosion/irritation Not classified based on available information.					
<u>c</u>	Components:					
	idocaine hydrochloride:					
	Result Remarks	:	No skin irritation Based on data fro	om similar materials		
	Serious eye damage/eye irritation Not classified based on available information.					
F	Respiratory or skin sensitization					
-	Skin sensitizationNot classified based on available information.Respiratory sensitizationNot classified based on available information.Germ cell mutagenicityNot classified based on available information.Components:					
<u>c</u>						
L	idocaine hydrochloride:					
C	Senotoxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES)		
				on data from similar materials		
			Test Type: Chrom Result: negative	nosome aberration test in vitro		
			Remarks: Based	on data from similar materials		
	Carcinogenicity Not classified based on available information.					
	Reproductive toxicity					
	Not classified based on available information.					
	STOT-single exposure Not classified based on available information.					
	STOT-repeated exposure Not classified based on available information.					
	Aspiration toxicity Not classified based on avail	able	information.			



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SECT	ION 1	2. ECOLOGICAL INFO	ORN	IATION		
E	Ecotoxicity					
<u>C</u>	Compo	onents:				
		ine hydrochloride: / to fish	:	Exposure time: 9 Method: OECD T	nio rerio (zebrafish)): > 100 mg/l 6 h est Guideline 203 on data from similar materials	
		y to daphnia and other invertebrates	:	Exposure time: 4 Method: OECD T	nagna (Water flea)): > 100 mg/l 8 h est Guideline 202 on data from similar materials	
	oxicity lants	y to algae/aquatic	:	mg/l Exposure time: 7 Method: OECD T	rchneriella subcapitata (green algae)): > 100 2 h est Guideline 201 on data from similar materials	
Р	Persis	tence and degradabil	ity			
<u>C</u>	Compo	onents:				
		ine hydrochloride: radability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials	
В	Bioaco	umulative potential				
<u>c</u>	Compo	onents:				
Р	Partitio	ine hydrochloride: n coefficient: n- l/water	:	log Pow: 2,25 Remarks: Calcula	ation	
		t y in soil a available				
-		adverse effects a available				
SECT	ION 1	3. DISPOSAL CONSIL	DER	ATIONS		
D	Dispos	al methods				
	-	from residues	:		f waste into sewer.	
С	Contan	ninated packaging	:	Empty containers	ordance with local regulations. s should be taken to an approved waste ecycling or disposal	

handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.





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ECTION	14. TRANSPORT IN	FORMATION				
Inter	national Regulations					
UNR Not re	TDG egulated as a dangero	ous good				
IATA-DGR Not regulated as a dangerous good						
-	IMDG-Code Not regulated as a dangerous good					
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.					
Dom	Domestic regulation					
ANT Not re	r egulated as a dangero	ous good				
•	ial precautions for u	ser				
ECTION	15. REGULATORY I	NFORMATION				
Safet mixt		nmental regulations/leg	gislation specific for the substance or			
mixt	nal List of Carcinogen	nmental regulations/leg	gislation specific for the substance or : Not applicable			

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

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

SECTION 16. OTHER INFORMATION

Revision Date	:	30.09.2023
Date format	:	dd.mm.yyyy

Further information

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



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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 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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