



Ver 2.2	sion	Revision Date: 2024/09/28		S Number: 5555-00009	Date of last issue: 2023/09/30 Date of first issue: 2020/03/16			
1. P	1. PRODUCT AND COMPANY IDENTIFICATION							
	Produc	t name	:	Lidocaine Hydrod	chloride Formulation			
	Manufa	acturer or supplier's c	letai	ls				
	Compa	ny	:	MSD				
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue ersey U.S.A. 07065			
	Teleph	one	:	908-740-4000				
	Emerge	ency telephone number	r:	1-908-423-6000				
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com			
	Recom	mended use of the cl	nem	ical and restriction	ons on use			
		mended use tions on use	:	Veterinary produ Not applicable	ct			

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Lidocaine hydrochloride	6108-05-0	< 10

4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air.
		Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.

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In ca	se of eye contact			ention if symptoms occur.				
in ca		•	 Flush eyes with water as a precaution. 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. 					
If swa	allowed	:						
	important symptoms effects, both acute and	:	None known.					
Prote	ection of first-aiders s to physician	:		autions are necessary for first aid responders. atically and supportively.				
5. FIREFI	GHTING MEASURES							
Suita	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical					
Unsu medi	itable extinguishing a	:	None known.					
Spec fighti	ific hazards during fire- ng	:	Exposure to co	mbustion products may be a hazard to health.				
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compo Nitrogen oxides					
Spec ods	ific extinguishing meth-	:	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. haged containers from fire area if it is safe to do				
	ial protective equipment efighters	:	essary.	ined breathing apparatus for firefighting if nec- rotective equipment.				
6. ACCID	ENTAL RELEASE MEA	SUF	RES					
tive e	onal precautions, protec- equipment and emer- y procedures	:		Idling advice (see section 7) and personal pro- ent recommendations (see section 8).				
Envir	onmental precautions	:	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or oi lose of contaminated wash water. s should be advised if significant spillages				
			2/11					



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		cannot be contai	ned.
	ethods and materials for ntainment 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 mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing 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- lations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HAN	DLING AND STORAGE		
Te	chnical measures		measures under EXPOSURE RSONAL PROTECTION section.
	cal/Total ventilation lvice on safe handling	: Handle in accord practice, based of sessment	equate ventilation. lance with good industrial hygiene and safety on the results of the workplace exposure as- vent spills, waste and minimize release to the
	onditions for safe storage	Store in accorda	labelled containers. nce with the particular national regulations.
Ma	aterials to avoid	: Do not store with Strong oxidizing	the following product types: 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
Lidocaine hydrochloride	6108-05-0	TWA	15 µg/m3	Internal
	Further informa	ation: 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., 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.



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			are required to	,
Perso	onal protective equip	ment		
	iratory protection	:	No personal res quired.	piratory protective equipment normally re-
Hand	protection			
Ma	aterial	:	Chemical-resist	ant gloves
Re	emarks	:	Consider double	e gloving.
Eye p	protection	:	If the work envir mists or aerosol Wear a faceshie	sses with side shields or goggles. conment or activity involves dusty conditions, is, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skin a	and body protection	:	Additional body task being perfo posable suits) to	laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis- p avoid exposed skin surfaces. e degowning techniques to remove potentially othing.
Hygie	ene measures	:	If exposure to cl eye flushing sys ing place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of strols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the
9. PHYSIC	CAL AND CHEMICAL	PROI	PERTIES	
Appea	arance	:	liquid	
Colou	ır	:	colourless	

- Odour Threshold : No data available
- рН : 4.5 6.5

Odour

- Melting point/freezing point : No data available
- Initial boiling point and boiling : No data available

: No data available



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range			
Flash	point	: No data a	vailable
Evapo	oration rate	: No data a	vailable
Flamn	nability (solid, gas)	: Not applic	able
Flamn	nability (liquids)	: No data a	vailable
	explosion limit / Upper ability limit	: No data a	vailable
	explosion limit / Lower ability limit	: No data a	vailable
Vapou	ır pressure	: No data a	vailable
Relativ	ve vapour density	: No data a	vailable
Relativ	ve density	: No data a	vailable
Densi	ty	: No data a	vailable
	ility(ies) ater solubility	: No data a	vailable
	on coefficient: n- bl/water	: Not applic	able
	gnition temperature	: No data a	vailable
Decor	nposition temperature	: No data a	vailable
Viscos Vis	sity scosity, kinematic	: No data a	vailable
Explos	sive properties	: Not explos	sive
Oxidiz	ing properties	: The subst	ance or mixture is not classified as oxidizing.
Molec	ular weight	: No data a	vailable
	le characteristics le size	: Not applic	able

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		





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Incon	itions to avoid npatible materials rdous decomposition ucts	: None know : Oxidizing ag : No hazardo	
1. TOXIC	OLOGICAL INFORM	ATION	
Inforr expos	nation on likely routes sure	of : Inhalation Skin contact Ingestion Eye contact	
	e toxicity		
	lassified based on ava	ilable information.	
Prod Acute	uct: e oral toxicity		y estimate: > 2,000 mg/kg culation method
Com	ponents:		
Lido	caine hydrochloride:		
Acute	e oral toxicity	: LD50 (Mous	e): 292 mg/kg
Not c	corrosion/irritation lassified based on ava	ilable information.	
	ponents:		
Lidoo Resu Rema		: No skin irrita : Based on da	ition ata from similar materials
	ous eye damage/eye i lassified based on ava		
Resp	iratory or skin sensit	isation	
	sensitisation lassified based on ava	ilable information.	
-	iratory sensitisation lassified based on ava	ilable information.	
	n cell mutagenicity lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
	caine hydrochloride: toxicity in vitro	Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials



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Test Type: Chromosome aberration test in vitro Result: negative 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 available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Lidocaine hydrochloride:		
Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials

Persistence and degradability

Components:

Lidocaine hydrochloride:		
Biodegradability	:	Result: Not readily biodegradable. Remarks: Based on data from similar materials



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<u>Com</u> Lido	ccumulative potential ponents: caine hydrochloride: tion coefficient: n-	i log Dow: 2.25			
octar Mob i	ility in soil ata available	: log Pow: 2.25 Remarks: Cal			
No d	r adverse effects ata available				
13. DISPO	DSAL CONSIDERATION	NS			
Disp	osal methods				
Wast	e from residues		e of waste into sewer.		
Cont	aminated packaging	: Empty contain dling site for re	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste har dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
14. TRAN	SPORT INFORMATION	I			
Inter	national Regulations				
Prop Class Subs Pack Labe	umber er shipping name s idiary risk ing group	 Not applicable no 			
IATA UN/II Prop Class Subs Pack Labe Pack aircra Pack	-DGR D No. er shipping name s idiary risk ing group Is ing instruction (cargo	 Not applicable 			

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable





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Packi Label EmS	-	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 			
	sport in bulk accordir pplicable for product a	ng to Annex II of MAR s supplied.	POL 73	/78 and the IBC Code	
-	ial precautions for us pplicable	er			
15. REGU	LATORY INFORMATI	ON			
Safet ture	y, health and environ	mental regulations/le	gislatio	on specific for the substance or mix-	
ter of	Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minis- ter of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized Sys- tem of Classification and Labelling of Chemicals.				
	lation of the Minister rdous to Health	of Health No. 472 of 1	996 on	the Safeguarding of Substances	
Haza	rdous substances that	must be registered	:	Not applicable	
Gove stanc	-	o. 74 of 2001 on the M	lanagei	ment of Hazardous and Toxic Sub-	
Haza	rdous substances appr	oved for use	:	Not applicable	
Prohi	bited substances		:	Not applicable	
Restr	icted substances		:	Not applicable	
Regu Mater		of Trade No. 7 of 2022	2 on Di	stribution and Control of Hazardous	
	of hazardous materials ol, Annex I	s subject to distribution	and :	Not applicable	
	of hazardous materials ol, Annex II	s subject to distribution	and :	Not applicable	

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

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

16. OTHER INFORMATION



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Rev	vision Date	:	2024/09/28	
Fur	ther 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 Ager cy, http://echa.europa.eu/	
Dat	e 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 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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