

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
1.11	28.09.2024	5522862-00012	Date of first issue: 16.03.2020

## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Lidocaine Hydrochloride Formulation
1.2	Relevant identified uses of th	ne s	substance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

## **1.4 Emergency telephone number**

+1-908-423-6000

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

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

EUH210 Safety data sheet available on request.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Lidocaine hydrochloride	6108-05-0	Acute Tox. 3; H301 Acute toxicity esti- mate Acute oral toxicity: 292 mg/kg	>= 1 - < 10

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Protection of first-aiders	: No special precautions are necessary for first aid responders.
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. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.

#### **4.2 Most important symptoms and effects, both acute and delayed** None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed



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Trea	itment	:	Treat symptomatically and supportively.	
SECTIO	N 5: Firefighting meas	sur	es	
<b>5.1 Extinguishing media</b> Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
Unsı medi	uitable extinguishing ia	:	None known.	
5.2 Spec	ial hazards arising from	the	e substance or mi	xture
	Specific hazards during fire- fighting		Exposure to com	bustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Carbon oxides Chlorine compou Nitrogen oxides (	
5.3 Advic	ce for firefighters			
	cial protective equipment refighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
Specific extinguishing meth- ods		:	cumstances and Use water spray	g 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

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).

# 6.2 Environmental precautions

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements
		certain local or national requirements.

## 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

1.1 Frecautions for sale nanuling	y	
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment 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 contami- nated 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.
7.2 Conditions for safe storage, i	inc	luding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
7.3 Specific end use(s)		
Specific use(s)	:	No data available



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## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Lidocaine hydro- chloride	6108-05-0	TWA	15 µg/m3	Internal
	Further inform	nation: DSEN		
		STEL	100 µg/m3 (OEB 3)	Internal
		Wipe limit	150 μg/100 cm²	Internal

#### 8.2 Exposure controls

## 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 are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye/face 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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection	:	No personal respiratory protective equipment normally re- quired.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	
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liquid

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Colour		:	colourless	
	Odour		:	No data available	
	Odour 7	Threshold	:	No data available	
	Melting	point/freezing point	:	No data available	
	Initial be range	oiling point and boiling	:	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	
	Flash p	oint	:	No data available	
	Auto-igi	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	4,5 - 6,5	
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	

## 9.2 Other information



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Explo	osives	: Not explosive	
Oxidi	zing properties	: The substance	e or mixture is not classified as oxidizing.
Evap	oration rate	: No data availa	able
Mole	cular weight	: No data availa	able

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions Can react with strong oxidizing agen	Hazardous reactions	: Can react with strong oxidizing agents
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## 10.4 Conditions to avoid

Conditions to avoid	:	None known.
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## 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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# 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

## Acute toxicity

Not classified based on available information.

## Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg
		Method: Calculation method

## Components:

## Lidocaine hydrochloride:

Acute oral toxicity	: LD50 (Mouse): 292 mg/kg
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## Skin corrosion/irritation

Not classified based on available information.

## Components:

#### Lidocaine hydrochloride:

Result Remarks No skin irritationBased on data from similar materials

## Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Lidocaine hydrochloride:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
		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.

# 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components consid-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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				REACH Article 57	ocrine disrupting properties according to (f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.		
SEC	SECTION 12: Ecological information						
12.1	Toxici	ty					
	Comp	onents:					
	Lidoca	ine hydrochloride:					
	Toxicit	y to fish	:	Exposure time: 96 Method: OECD T			
		y to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD T			
	Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T			
12.2	Persis	tence and degradabil	ity				
	Compo	onents:					
		<b>iine hydrochloride:</b> Iradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials		
12.3	Bioaco	cumulative potential					
	Compo	onents:					
		<b>iine hydrochloride:</b> n coefficient: n- l/water	:	log Pow: 2,25 Remarks: Calcula	tion		
		<b>ty in soil</b> a available					
12.5	12.5 Results of PBT and vPvB assessment						
	<u>Produ</u> Assess		:	This substance/m	ixture contains no components considered		
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		•	sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting pro	perties	
Produ	uct:		
Assessment		ered to have en REACH Article	mixture does not contain components consid- docrine disrupting properties according to 57(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at or higher.

# 12.7 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

# **SECTION 14: Transport information**

## 14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good

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14.3 Tran	sport hazard class(e		
ADN		: Not regulated as a dangerous g	bod
ADR		: Not regulated as a dangerous g	bod
RID		: Not regulated as a dangerous g	bod
IMDO	6	: Not regulated as a dangerous g	bod
ΙΑΤΑ		: Not regulated as a dangerous g	bod
14.4 Pack	ing group		
ADN		: Not regulated as a dangerous g	bod
ADR		: Not regulated as a dangerous g	bod
RID		: Not regulated as a dangerous g	bod
IMDO	6	: Not regulated as a dangerous g	bod
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous g	bod
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous g	bod
-	ronmental hazards egulated as a dangero	s good	
-	<b>ial precautions for u</b>	er	
14.7 Marit	time transport in bul	according to IMO instruments	
Rema	arks	: Not applicable for product as su	pplied.

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian major-accident hazards involving dangerous substances. Not applicable		t and of the Council on the control of



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The c AICS		product are reported : not determined	<b>in the following inventories:</b>
DSL		: not determined	d
IECS	С	: not determined	d
45 0 01			

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

Other information

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

#### Full text of H-Statements

H301

Toxic if swallowed.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN



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- United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

## 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/

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.

NO / EN