SAFETY DATA SHEET

Revision Date:

30.09.2023

SDS Number:

5351281-00010



Date of last issue: 04.04.2023

Date of first issue: 11.12.2019

Isometamidium

Version

2.1

2.1	30.03.2023	5	551201-	00010	Date 0	1113(13306.11.12.2013	
SEC	CTION 1: Identification of	the	e subst	ance/mixt	ture and	d of the company/undertaking	
1 1	Product identifier						
1.1	Trade name		loomo	etamidium			
	Trade fiame	•	ISUITE	lamulum			
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against						
	Use of the Sub-	:	Veteri	inary produ	ct		
	stance/Mixture						
	Recommended restrictions on use	:	Not a	pplicable			
1.3	Details of the supplier of the	e sa	fety dat	ta sheet			
	Company	:	MSD				
				artan Road			
			1619	Spartan, S	South Afri	ca	
	Telephone	:	+2711	19239300			
	E-mail address of person responsible for the SDS	:	EHSD	DATASTEW	/ARD@n	nsd.com	
1.4	1.4 Emergency telephone number +1-908-423-6000						
SEC	CTION 2: Hazards identifi	cati	ion				
2.1	Classification of the substa	nce	or mixt	ure			
	Classification (REGULATIO) אר	EC) No	1272/2008	a		
	Acute toxicity, Category 3		20)110			swallowed.	
2.2	Label elements						
	Labolling (DECUL ATION (No 1071	2/2000)			
	Labelling (REGULATION (E	:C)		2/2008)			
	Hazard pictograms	•		È.			
	Signal word	:	Dange	r			
	Hazard statements	:	H301	Toxic if sv	vallowed		
	Precautionary statements	:	Dreves	ation.			
	-		Prever		a 41a		
			P264 P270			ghly after handling. r smoke when using this product.	



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Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label:

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 100 %

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.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
8 [2 (m Amidinanhanul) 2 triazonal	Registration number 6798-24-9	Aguta Tay, 2, U201	N 00 1 100
8-[3-(m-Amidinophenyl)-2-triazeno]- 3-amino-5-ethyl-6-	229-873-8	Acute Tox. 3; H301	>= 90 - <= 100
phenylphenanthridinium chloride hydrochloride			

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air.



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			Get medical atter	ntion if symptoms occur.
In ca	ase of skin contact	:	Wash with water Get medical atter	and soap. ntion if symptoms occur.
In ca	ase of eye contact	:	If in eyes, rinse v Get medical atter	vell with water. ntion if irritation develops and persists.
lf sw	allowed	:	so by medical pe Call a physician Rinse mouth tho	NOT induce vomiting unless directed to do ersonnel. or poison control centre immediately. roughly with water. ning by mouth to an unconscious person.
	important symptoms a	nd e		-
Risk	S	:	Toxic if swallowe	ed.
			the skin.	t can cause mechanical irritation or drying on the eyes can lead to mechanical irritation.
			Dust contact with	The cycs can lead to mechanical initiation.
.3 Indic	ation of any immediate	me	dical attention an	d special treatment needed
Trea	tment	:	Treat symptomat	tically and supportively.
5.1 Extin	N 5: Firefighting mea guishing media able extinguishing media		Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Uns med	uitable extinguishing ia	:	None known.	
5.2 Spec	ial hazards arising from	n the	e substance or m	ixture
-	cific hazards during fire-	:	Avoid generating concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a
Haza ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (Chlorine compou	
5.3 Advid	ce for firefighters			
Spe	cial protective equipment refighters	:		e, wear self-contained breathing apparatus ptective equipment.
•				

Specific extinguishing meth- : Use extinguishing measures that are appropriate to local cir-



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ods		Use water s	and the surrounding environment. oray to cool unopened containers. damaged containers from fire area if it is safe to do ea.
SECTION	N 6: Accidental relea	ase measures	
6.1 Perso	nal precautions, prot	ective equipment	and emergency procedures
Perso	onal precautions	Follow safe	al protective equipment. handling advice (see section 7) and personal pro- oment recommendations (see section 8).
6.2 Enviro	onmental precautions		
Envir	onmental precautions	Prevent furth Retain and c	e to the environment. her leakage or spillage if safe to do so. dispose of contaminated wash water. ities should be advised if significant spillages ontained.
6.3 Metho	ds and material for c	ontainment and c	leaning up
	ods for cleaning up	: Sweep up of tainer for dis Avoid disper with compre Dust deposit es, as these leased into t Local or nati posal of this employed in mine which Sections 13	r vacuum up spillage and collect in suitable con- posal. sal of dust in the air (i.e., clearing dust surfaces

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

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling.



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Hygiene measures		pra ses Ke Mir Ke Tal Do Tal env : If e flus nat The env app ind	 Handle in accordance with good industrial hygiene and sat practice, based on the results of the workplace exposure a sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to environment. If exposure to chemical is likely during typical use, provide flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash containated 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 Condi	tions for safe storage,	including any incompatibilities					
	Requirements for storage areas and containers			labelled containers. Store locked up. Keep ore in accordance with the particular national			
Advic	e on common storage	Str Se Or Ex	ong oxidizing a	stances and mixtures			
7.3 Specific end use(s) Specific use(s)		: No	data available				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
8-[3-(m- Amidinophenyl)-2- triazeno]-3-amino- 5-ethyl-6- phenylphenan- thridinium chloride hydrochloride	6798-24-9	TWA	OEB 4 (>= 1 < 10 µg/m3)	Internal



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8.2 Exposure controls

Engineering measures

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Essentially no open handling permitted.

Use closed processing systems or containment technologies.

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.
Hand protection		
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 Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	: :	powder dark red No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.



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		explosion limit / Upper ability limit	:	No data available	
	Lower explosion limit / Lower flammability limit		:	No data available	
	Vapou	rpressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Partitio octano	ter solubility n coefficient: n-	:	No data available No data available No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	9.2 Other information				
	Flamm	ability (liquids)	:	Not applicable	
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	9

SECTION 10: Stability and reactivity

10.1	Reactivity	
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Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	: May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	

Conditions to avoid : Heat, flames and sparks.



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			Avoid dust forma	ation.
	mpatible materials rials to avoid	:	Oxidizing agents	3
	rdous decomposition azardous decomposition	-		
SECTION	N 11: Toxicological	inforı	nation	
	mation on toxicologi nation on likely routes sure		ects Inhalation Skin contact Ingestion Eye contact	
	e toxicity if swallowed.			
<u>Prod</u> Acute	uct: e oral toxicity	:	Acute toxicity est Method: Calculat	
Com	ponents:			
	m-Amidinophenyl)-2 ochloride:	-triaze	no]-3-amino-5-et	hyl-6-phenylphenanthridinium chloride
•	e oral toxicity	:	LD50 (Rabbit): 30	00 mg/kg
Not c	corrosion/irritation lassified based on ava			
	ous eye damage/eye i lassified based on ava			
Resp	iratory or skin sensit	tisatio	n	
-	sensitisation lassified based on ava	ilable i	nformation.	
-	iratory sensitisation lassified based on ava	ilable i	nformation.	
	n cell mutagenicity lassified based on ava	ilable i	nformation.	
Com	ponents:			
	(m-Amidinophenyl)-2 ochloride:	-triaze	no]-3-amino-5-et	hyl-6-phenylphenanthridinium chloride
•	toxicity in vitro	:	Result: positive	rial reverse mutation assay (AMES) on data from similar materials



ersion 1	Revision Date: 30.09.2023		0S Number: 51281-00010	Date of last issue: 04.04.2023 Date of first issue: 11.12.2019				
•	0010012020							
			Result: negative	o mammalian cell gene mutation test on data from similar materials				
Geno	toxicity in vivo	:	cytogenetic test, Species: Rat Application Rout Result: equivoca	genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Intraperitoneal injection l on data from similar materials				
Germ sessr	n cell mutagenicity- As- nent	:	Weight of evider cell mutagen.	ce does not support classification as a germ				
	i nogenicity lassified based on avail	able	information.					
-	oductive toxicity lassified based on avail	able	ible information.					
Components:			riazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride					
-	ts on foetal develop-	:	Species: Rat Application Rout Result: negative	ity/early embryonic development e: Ingestion I on data from similar materials				
	Γ - single exposure lassified based on avail	able	information.					
	Γ - repeated exposure lassified based on avail	able	information.					
Repe	ated dose toxicity							
-	ponents:							
	m-Amidinophenyl)-2-t ochloride:	riaze	eno]-3-amino-5-e	thyl-6-phenylphenanthridinium chloride				
hydro			Rat					

Aspiration toxicity

Not classified based on available information.



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SECTIO	N 12: Ecological info	rmation	
12.1 Toxi	city		
<u>Com</u>	ponents:		
	(m-Amidinophenyl)-2-tr ochloride:	riazeno]-3-amino-5	-ethyl-6-phenylphenanthridinium chloride
	oxicology Assessment e aquatic toxicity		annot be excluded
Chro	nic aquatic toxicity	: Toxic effects c	annot be excluded
	istence and degradabi ata available	lity	
	ccumulative potential ata available		
	ility in soil ata available		
12.5 Resu	ults of PBT and vPvB a	ssessment	
<u>Prod</u>	uct:		
Asse	ssment	to be either pe	/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
12.6 Othe	er adverse effects		
Prod	uct:		
Endo tial	ocrine disrupting poten-	ered to have e REACH Article	/mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
SECTIO	N 13: Disposal consid	derations	
13.1 Was	te treatment methods		
Prod		According to th	ccordance with local regulations. le European Waste Catalogue, Waste Codes



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SECTION 14: Transport information								
14.1 UN ու	umber							
ADN		: UN 28 ²	11					
ADR		: UN 28 ⁻	11					
RID		: UN 28 ⁻	11					
IMDG		: UN 28 ⁻	11					
ΙΑΤΑ		: UN 28 ⁻	11					
14.2 UN pr	oper shipping name							
ADN		(8-[3-(r	n-Amidino	DRGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)				
ADR		(8-[3-(r	n-Amidino	DRGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)				
		DRGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)						
IMDG		(8-[3-(r	n-Amidino	DRGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)				
ΙΑΤΑ		(8-[3-(r	: Toxic solid, organic, n.o.s. (8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl- phenylphenanthridinium chloride hydrochloride)					
14.3 Trans	port hazard class(es)							
		Class		Subsidiary risks				
ADN		: 6.1						
ADR		: 6.1						
RID		: 6.1						
IMDG		: 6.1						
ΙΑΤΑ		: 6.1						
14.4 Packi	ng group							
Classi Hazar Labels ADR Packir Classi	ng group fication Code d Identification Number	: 6.1 : III : T2						



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		restriction code	:	(E)	
	Classif	g group ication Code I Identification Number	:	III T2 60 6.1	
	IMDG Packin Labels EmS C		:	III 6.1 F-A, S-A	
	IATA (Cargo) Packing instruction (cargo aircraft)		:	677	
		g instruction (LQ) g group	: : :	Y645 III Toxic	
	Packin ger airc		:	670	
		g instruction (LQ) g group	:	Y645 III Toxic	
14.5	5 Enviro	nmental hazards			
	ADN Enviror	nmentally hazardous	:	no	
	ADR Enviror	nmentally hazardous	:	no	
	RID Enviror	nmentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	
14.6 Special precautions for use			r		

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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

AICS : not determined



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DSL		: not determined	
IECSC		: not determined	

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.

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

Further information



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	Sources of key data used to compile the Safety Data Sheet	: Internal technical data, data from raw material SDSs, OE eChem Portal search results and European Chemicals Ag cy, http://echa.europa.eu/	
	Classification of the mixtu	re:	Classification procedure:
	Acute Tox. 3	H301	Calculation method

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.

ZA / EN