



Ethamsylate Formulation

Version 2.1	Revision Date: 30.09.2023		S Number: 78652-00009	Date of last issue: 04.04.2023 Date of first issue: 05.03.2020	
1. PRODU	CT AND COMPANY ID	ENT	IFICATION		
Product name : Ethamsylate Formulation					
Manufacturer or supplier's de			ils		
Comp	••	:	MSD		
Addre	ess	:	Briahnager - Off Wagholi - Pune -	Pune Nagar Road - India 412 207	
Telep	hone	:	+1-908-740-400	0	
Emer	gency telephone numbe	er :	+1-908-423-600	0	

E-mail address	:	EHSDATASTEWARD@msd.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Serious eye damage/eye irri-	:	Category 2B
tation		

GHS label elements

Hazard pictograms Signal word	:	None Warning
Hazard statements	:	H320 Causes eye irritation.
Precautionary statements	:	Prevention: P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P317 If eye irritation persists: Get medical help.



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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)
Ethamsylate		2624-44-4	>= 10 - < 20

4. FIRST AID MEASURES

Gene	ral 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.
lf inha	aled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In cas	e of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In cas	e of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
lf swa	llowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
	important symptoms ffects, both acute and ed	:	Causes eye irritation.
Protec	ction 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).
Notes	to physician	:	Treat symptomatically and supportively.
5. FIREFIC	GHTING MEASURES		
Suitat	ble extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsui media	table extinguishing	:	None known.
Speci fightin	fic hazards during fire-	:	Exposure to combustion products may be a hazard to health.
	dous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides
Speci ods	fic extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.





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	ial protective equipment efighters	:	so. Evacuate area. In the event of fire	ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. rective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	For large spills, pr ment to keep mat be pumped, store Clean up remainin bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after 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.
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components		CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Ethamsylate		2624-44-4	TWA	100 µg/m3 (OEB 2)	Internal
Engineering measures	:	technologies t quick connect All engineerin design and op protect produc	o control airborr ions). g controls shoul perated in accorr cts, workers, and	controls and manufac ne concentrations (e.g d be implemented by dance with GMP pring d the environment. require special conta	g., drip-less facility ciples to
Personal protective equip	ment				
Respiratory protection Filter type	:	sure assessm	ent demonstrate uidelines, use re	tilation is not available as exposures outside spiratory protection.	
Hand protection Material	:	,	Chemical-resistant gloves		
Eye protection Skin and body 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. Work uniform or laboratory coat.			
Skin and body protection	•			aı.	
Hygiene measures	:	flushing syste place. When using d Wash contam The effective engineering c appropriate de industrial hygi	ms and safety s o not eat, drink inated clothing b operation of a fa ontrols, proper p egowning and de	before re-use. cility should include r personal protective ec econtamination proce medical surveillance	vorking eview of juipment, dures,

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available

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pł	1	:	6.0 - 7.0	
М	elting point/freezing point	:	No data available	9
	itial boiling point and boiling nge	:	No data available	9
FI	ash point	:	No data available	9
E١	vaporation rate	:	No data available	9
FI	ammability (solid, gas)	:	Not applicable	
FI	ammability (liquids)	:	No data available	9
	oper explosion limit / Upper Immability limit	:	No data available	9
	ower explosion limit / Lower Immability limit	:	No data available	9
Va	apour pressure	:	No data available	9
R	elative vapour density	:	No data available	9
R	elative density	:	No data available	9
De	ensity	:	No data available	9
So	blubility(ies) Water solubility	:	No data available	9
	artition coefficient: n- tanol/water	:	Not applicable	
	uto-ignition temperature	:	No data available	9
De	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, kinematic	:	No data available	9
E	plosive properties	:	Not explosive	
O	xidizing properties	:	The substance o	r mixture is not classified as oxidizing.
М	olecular weight	:	No data available	9
Pa	article size	:	Not applicable	

10. STABILITY AND REACTIVITY





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Poss tions Conc Incor	nical stability ibility of hazardous reac- litions to avoid npatible materials ırdous decomposition	::	Stable under nor Can react with st None known. Oxidizing agents	rong oxidizing agents.
11. TOXIC		ΓΙΟΙ	N	
Infori expo	mation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity classified based on availa	ble	information.	
<u>Com</u>	ponents:			
Etha	msylate:			
Acute	Acute oral toxicity	:	LD50 (Rat): 7,500) mg/kg
			LD50 (Mouse): 8,	300 mg/kg
			LD50 (Guinea pig): 3,500 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Mouse): > Application Route	
			LD50 (Mouse): 29 Application Route	
			LD50 (Mouse): 76 Application Route	
			LD50 (Mouse): 6, Application Route	
			LD50 (Rat): > 4,00 Application Route	
			LD50 (Rat): 1,350 Application Route	
			LD50 (Rat): 5,250 Application Route	
	corrosion/irritation	ble	information	
	ous eye damage/eye irri			
-				

Causes eve irritation

Causes eye irritation.

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Components:

Ethamsylate:

:	Rabbit
:	Draize Test
:	Moderate eye irritation
:	Moderate eye irritation
	:

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:

Ethamsylate:

Genotoxicity in vitro

: Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Ethamsylate: Effects on foetal develop-2 Test Type: Reproduction/Developmental toxicity screening ment test Species: Rat, female Application Route: Oral General Toxicity Maternal: NOAEL: 300 mg/kg body weight Teratogenicity: NOAEL: 300 mg/kg body weight Result: No adverse effects Test Type: Reproduction/Developmental toxicity screening test Species: Mouse, female Application Route: Oral General Toxicity Maternal: NOAEL: 300 mg/kg body weight Teratogenicity: NOAEL: 300 mg/kg body weight Result: No adverse effects Test Type: Reproduction/Developmental toxicity screening test Application Route: Oral General Toxicity Maternal: NOAEL: 300 mg/kg body weight

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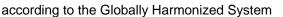
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		Teratogenicity: Result: No adve	NOAEL: 300 mg/kg body weight erse effects			
	Γ - single exposure lassified based on ava	ailable information.				
	F - repeated exposur lassified based on available					
-	Aspiration toxicity Not classified based on available information.					
Expe	rience with human e	exposure				
Com	ponents:					
Ethar Inges	msylate: tion		adache, hypotension, Nausea nost common side effects are: eding, pruritis			
Furth	ner information					
<u>Com</u>	ponents:					
Ethar Rema	msylate: arks	: The toxicologica investigated	al properties of this material have not been fully			

12. ECOLOGICAL INFORMATION

No data availa				
Persistence	and degradabilit	У		
No data availa	able			
Bioaccumula	tive potential			
No data availa	able			
Mobility in se	bil			
No data availa				
Other advers	e effects			
No data availa	able			

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.





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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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
DSL	:	not determined
IECSC	:	not determined

16. OTHER INFORMATION

Revision Date	:	30.09.2023
Further 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 Agen- cy, http://echa.europa.eu/
Date format	:	dd.mm.yyyy

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

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- 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.

IN / EN