

Ethamsylate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	5478654-00009	Date of first issue: 05.03.2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : E Manufacturer or supplier's details

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Manufacturer or supplier's details						
Company name of supplier	:	MSD				
Address	:	126 E. Lincoln Avenue				
		Rahway, New Jersey U.S.A. 07065				
Telephone	:	908-740-4000				
Emergency telephone	:	1-908-423-6000				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

	Substance / Mixture	:	Mixture
SEC	Other hazards None known. CTION 3. COMPOSITION/INFC	DRM	IATION ON INGREDIENTS
	Precautionary Statements	:	Prevention: P264 Wash skin thoroughly after handling. 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 + P313 If eye irritation persists: Get medical advice/ atten- tion.
	Hazard Statements	:	H320 Causes eye irritation.
	GHS label elements Signal Word		Warning
	GHS Classification Serious eye damage/eye irritation	:	Category 2B

Components		
Chemical name	CAS-No.	Concentration (% w/w)
Ethamsylate	2624-44-4	>= 10 -< 20

SECTION 4. FIRST AID MEASURES



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Gene	eral advice	advice imme	f accident or if you feel unwell, seek medical diately. oms persist or in all cases of doubt seek medical			
lf inh	aled		If inhaled, remove to fresh air.			
In ca	se of skin contact	: Wash with wa	Get medical attention if symptoms occur. Wash with water and soap as a precaution. Get medical attention if symptoms occur.			
In ca	se of eye contact	: In case of con for at least 15 If easy to do,	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.			
If swa	allowed	Get medical a	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
	important symptoms effects, both acute and /ed	: Causes eye i				
	ection of first-aiders	and use the r	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).			
Note	s to physician		matically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).	
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.	



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	 materials for Ind cleaning up	:	oil barriers). Retain and dispose Local authorities as cannot be contain Soak up with iner For large spills, per containment to ke can be pumped, se container. Clean up remaining absorbent. Local or national and disposal of this m employed in the of determine which a	g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages ed. t absorbent material. rovide diking or other appropriate ep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation Advice on safe handling		See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Avoid inhalation of vapor 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 assessment
		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 contaminated 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.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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 :	 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. Laboratory operations do not require special containment. 					
Personal protective equipment	t					
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.					
Filter type : Hand protection	Particulates ty	Particulates type				
Material :	Chemical-resi	Chemical-resistant gloves				
Eye 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.					
Skin and body protection :		or laboratory co	at.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Color	:	colorless
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	6.0 - 7.0
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



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	Flomm	ability (aplid, gap)		Not appliable	
	гатта	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	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol Autoigr	hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

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



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SECTION	11. TOXICOLOGICAL IN	NFOR	MATION	
Inforn Inhala Skin c Ingest Eye co	ontact ion	of ex	oosure	
	toxicity assified based on availab	ble inf	ormation.	
Comp	onents:			
Ethan	nsylate:			
Acute	oral toxicity	: L	D50 (Rat): 7,50	00 mg/kg
		L	D50 (Mouse):	8,300 mg/kg
		L	D50 (Guinea p	ig): 3,500 mg/kg
	toxicity (other routes of istration)		D50 (Mouse): : pplication Rou	> 4,000 mg/kg te: Intramuscular
			D50 (Mouse): : pplication Rou	29,750 mg/kg te: Intraperitoneal
			D50 (Mouse): pplication Rou	760 mg/kg te: Intravenous
			D50 (Mouse): pplication Rou	6,040 mg/kg te: Subcutaneous
			D50 (Rat): > 4 pplication Rou	,000 mg/kg te: Intramuscular
			D50 (Rat): 1,3 pplication Rou	50 mg/kg te: Intravenous
			D50 (Rat): 5,2 pplication Rou	50 mg/kg te: Subcutaneous
	corrosion/irritation assified based on availab	ble inf	ormation.	
	us eye damage/eye irrit es eye irritation.	tation		
<u>Comp</u>	onents:			
Ethan	nsylate:			
Specie Result Metho Rema	es t d	: N : D	abbit loderate eye ir raize Test loderate eye ir	



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Resp	iratory or skin sensiti	zatic	n	
Skin	sensitization			
Not c	lassified based on avail	able	information.	
-	iratory sensitization			
	lassified based on avail	able	information.	
	cell mutagenicity		information	
	lassified based on avail	able	information.	
	oonents:			
	nsylate:		Toot Turo Mut	acciente (Colmonollo territingurium erogere
Geno	toxicity in vitro	•	mutation assay) Result: negative	
	nogenicity lassified based on avail	able	information	
	oductive toxicity			
•	lassified based on avail	able	information.	
Com	<u>oonents:</u>			
Ethai	nsylate:			
	ts on fetal development	:	Test Type: Rep test Species: Rat, fe	roduction/Developmental toxicity screenin
			Application Rou	te: Oral
				/ Maternal: NOAEL: 300 mg/kg body weig NOAEL: 300 mg/kg body weight erse effects.
			test	roduction/Developmental toxicity screenin
			Species: Mouse Application Rou	
			General Toxicity	/ Maternal: NOAEL: 300 mg/kg body weig NOAEL: 300 mg/kg body weight
			Test Type: Rep test Application Rou	roduction/Developmental toxicity screenin

STOT-single exposure

Not classified based on available information.



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ersion 1	Revision Date: 30.09.2023	•-	OS Number: 78654-00009	Date of last issue: 04.04.2023 Date of first issue: 05.03.2020
	F-repeated exposure lassified based on ava		information.	
Aspir	ration toxicity lassified based on ava			
Expe	rience with human e	exposi	ire	
<u>Com</u>	ponents:			
Ethar	nsylate:			
Inges	tion	:		adache, hypotension, Nausea most common side effects are: eding, pruritis
Furth	er information			
Com	ponents:			
Ethar	msylate:			
Rema	arks	:	The toxicologic investigated	al properties of this material have not been full

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good



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	-DGR egulated as a dangero	ous good	
	-Code egulated as a dangero	ous good	
	sport in bulk accordi pplicable for product a	-	RPOL 73/78 and the IBC Code
Dom	estic regulation		
	-002-SCT egulated as a dangerc	ous good	
Spec	ial precautions for u	ser	
Not a	pplicable		
SECTION	15. REGULATORY I	NFORMATION	
Safet mixtu		nmental regulations/l	egislation specific for the substance or
esser	ral Law for the control ntial chemical products ucing capsules, tablets		s, : 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

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 Con-



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centration 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

Sources of key data used to compile the Material Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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