

# **Tricaine Mesylate**

Vers 4.2	sion	Revision Date: 2024/09/28		S Number: 34855-00010	Date of last issue: 2023/09/30 Date of first issue: 2019/09/10
1. P	RODUC	T AND COMPANY ID	ENT	IFICATION	
	Product	t name	:	Tricaine Mesylate	e
	Product	t code	:	3-Ethoxycarbony	lanilinium methanesulphonate, Tricaine
		acturer or supplier's d	letai		
	Compa	ny	:	MSD	
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
	Telepho	one	:	908-740-4000	
	Emerge	ency telephone number	:	1-908-423-6000	
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch	nem	ical and restriction	ons on use
		mended use tions on use	:	Veterinary produce 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

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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Substance name	<ul><li>Substance</li><li>3-Ethoxycarbonylanilinium methanesulphonate</li></ul>
CAS-No.	: 886-86-2

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
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#### 4. FIRST AID MEASURES

:	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.
:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
:	Wash with water and soap. Get medical attention if symptoms occur.
:	If in eyes, rinse well with water. 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.
:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. No special precautions are necessary for first aid responders. Treat symptomatically and supportively.

#### **5. FIREFIGHTING MEASURES**

Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
None known.
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Carbon oxides
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.
Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.



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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. 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.

#### 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and ignite suspended causing an explosion. Provide adequate precautions, such as electrical groun and bonding, or inert atmospheres.	
Local/Total ventilation	Use only with adequate ventilation.	
Advice on safe handling	Do not breathe dust.	
	Handle in accordance with good industrial hygiene and	
	practice, based on the results of the workplace exposu sessment	re as-
	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 discharge	s.
	Take care to prevent spills, waste and minimize releas environment.	e to the
Conditions for safe storage	Keep in properly labelled containers.	
C C	Store in accordance with the particular national regulat	ions.
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	
3-Ethoxycarbonylanilinium methanesulphonate	886-86-2	TWA	70 µg/m3 (OEB 3)	Internal	
•	Further infor	mation: Skin, DS	EN		
		Wipe limit	100 µg/100 cm2	Internal	
Engineering measures	design and protect proc Containmer are required the compound tainment de	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 con- tainment devices). Minimize open handling.			
Personal protective equipm	nent				
Respiratory protection Filter type Hand protection	sure assess ommended	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type			
Material	: Chemical-re	esistant gloves			
Remarks Eye protection	: Wear safety If the work e mists or aer Wear a face	environment or a rosols, wear the a reshield or other fu	le shields or goggles. ctivity involves dusty c appropriate goggles. ull face protection if the		

	potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>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</li> </ul>



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#### use of administrative controls.

9. PHYS	9. PHYSICAL AND CHEMICAL PROPERTIES					
Арр	pearance	:	Crystalline powder			
Col	lour	:	white			
Od	our	:	No data available			
Od	our Threshold	:	No data available			
pН		:	4.1 - 7.4			
Me	Iting point/freezing point	:	149 - 150 °C			
Initi ran	ial boiling point and boiling ge	:	No data available			
Fla	sh point	:	No data available			
Eva	aporation rate	:	Not applicable			
Fla	mmability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.			
Fla	mmability (liquids)	:	Not applicable			
	per explosion limit / Upper nmability limit	:	No data available			
	ver explosion limit / Lower nmability limit	:	No data available			
Vap	oour pressure	:	Not applicable			
Rel	ative vapour density	:	Not applicable			
Rel	ative density	:	No data available			
Dei	nsity	:	No data available			
	ubility(ies) Water solubility	:	110 g/l			
	rtition coefficient: n- anol/water	:	log Pow: 1.7			
	o-ignition temperature	:	No data available			
Dee	composition temperature	:	No data available			
	cosity Viscosity, kinematic	:	Not applicable			



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Explo	sive properties	:	Not explosive		
Oxidiz	ring properties	:	The substance of	or mixture is not classified as oxidizing.	
Molec	ular weight	:	No data availabl	e	
	le characteristics le size	:	No data availabl	e	
). STABI	LITY AND REACTIVITY	,			
	ivity ical stability pility of hazardous reac-	:	Stable under nor May form explose dling or other me	ive dust-air mixture during processing, han-	
Condi	tions to avoid	:	Heat, flames and Avoid dust forma		
	patible materials dous decomposition cts	<ul> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>			
. TOXIC	OLOGICAL INFORMAT		l		
Inform expos	nation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact		
	e toxicity assified based on availa	ble i	nformation.		
Comp	oonents:				
	oxycarbonylanilinium	met	-		
Acute	oral toxicity	:	LD50 (Rat): 5,20	) mg/kg	
			LD50 (Mouse): 2	400 mg/kg	
			LD50 (Dog): 4,00	0 mg/kg	
-	corrosion/irritation assified based on availa	ble i	nformation.		
Serio	us eye damage/eye irri assified based on availa				



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#### 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:**

#### 3-Ethoxycarbonylanilinium methanesulphonate:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### Components:

#### 3-Ethoxycarbonylanilinium methanesulphonate:

Reproductive toxicity - As- : Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

Not classified based on available information.

#### Components:

#### 3-Ethoxycarbonylanilinium methanesulphonate:

:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

3-Ethoxycarbonylanilinium methanesulphonate:



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Gene	ral Information					
Skin o	contact	piratory disord : Target Organs Symptoms: Ey Target Organs Symptoms: Se	s: Eye ve disease s: Skin			
2. ECOL	OGICAL INFORMATI	ON				
Ecoto	oxicity					
	oonents:					
	oxycarbonylaniliniu	n methanesulphona	te:			
	ity to microorganisms	EC50 (Tetrahy): Exposure time	EC50 (Tetrahymena pyriformis): 52.5 mg/l Exposure time: 48 h Method: No data available			
	stence and degrada	bility				
Bioac	cumulative potentia	I				
Comp	oonents:					
3-Eth	oxycarbonylaniliniu	m methanesulphona	te:			
Bioac	cumulation		on factor (BCF): 4.76 D Test Guideline 305			
	i <b>ty in soil</b> Ita available					
Other	adverse effects					
No da	ita available					
3. DISPO	SAL CONSIDERATI	ONS				
Dispo	osal methods					
-	e from residues		e of waste into sewer.			
Conta	minated packaging	: Empty contain dling site for re	<ul> <li>Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved waste har dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>			
	SPORT INFORMATIO		· ·			

## International Regulations



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UNR	TDG			
	umber	:	Not applicable	
Prope	er shipping name	:	Not applicable	
	idiary risk	÷	Not applicable Not applicable	
	ing group	:	Not applicable	
Labe		÷	Not applicable	
	onmentally hazardous	÷	no	
ΙΛΤΛ	-DGR			
UN/IE			Not applicable	
<b>-</b> · · · · ·	er shipping name	÷	Not applicable	
Class		:	Not applicable	
	idiary risk	:	Not applicable	
	ing group	:	Not applicable	
Labe		:	Not applicable	
	ing instruction (cargo	:	Not applicable	
aircra		:	Not oppliaable	
	ing instruction (passen- ircraft)	·	Not applicable	
•				
-	G-Code		Net en else ble	
	umber er shipping name	÷	Not applicable Not applicable	
Class		:	Not applicable	
	idiary risk	:	Not applicable	
	ing group	÷	Not applicable	
Labe		:	Not applicable	
	Code	:	Not applicable	
Marir	ne pollutant	:	Not applicable	
Trans	sport in bulk according	ı to	Annex II of MARF	POL 73/78 and the IBC Code
	pplicable for product as	-		
	ial procautions for use	•		

Special precautions for user

Not applicable

#### 15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

: Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances



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	Hazard	ous substances approv	/ed	for use		:	Not applicable
	Prohibit	ted substances				:	Not applicable
	Restrict	ed substances				:	Not applicable
	Regula Materia		f Tr	ade No. 7 of 2022	on D	Dis	tribution and Control of Hazardous
Type of hazardous materials subject to distribution and : Not applicable control, Annex I					Not applicable		
	Type of hazardous materials subject to dist control, Annex II			ect to distribution a	nd	:	Not applicable
	The co	mponents of this pro	duc	t are reported in t	he fo	oll	owing inventories:
	AICS		:	not determined			C C
	DSL		:	not determined			
	IECSC		:	not determined			
16. (	OTHER	INFORMATION					
	Revisio	n Date	:	2024/09/28			
	Furthe	r information					
		s of key data used to the Safety Data	:		rch r	res	ata from raw material SDSs, OECD sults and European Chemicals Agen- /

# Date 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



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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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