according to the Hazardous Products Regulations



## **Tricaine Mesylate**

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
3.1	09/30/2023	4834821-00010	Date of first issue: 09/10/2019

#### **SECTION 1. IDENTIFICATION**

Product name	:	Tricaine Mesylate
Product code Other means of identification		3-Ethoxycarbonylanilinium methanesulphonate, Tricaine No data available

#### Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
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@merck.com
December 1. Loss of the		

### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with the Hazardous Products Regulations

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

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

Substance / Mixture Substance name		Substance 3-Ethoxycarbonylanilinium methanesulphonate
CAS-No.	:	886-86-2
Common Name/Synonym	:	No data available

#### Components

	Common Name/Synonym	CAS-No.	Concentration (% w/w)
	No data availa-		
Ethoxycarbonylanilini-	ble		>= 80 - <= 100 *
um methanesulphonate			

<sup>\*</sup> Actual concentration or concentration range is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

according to the Hazardous Products Regulations



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General advice		advice imm	of accident or if you feel unwell, seek medical ediately. otoms persist or in all cases of doubt seek medical			
If inhaled		,	If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In c	In case of skin contact		Wash with water and soap. Get medical attention if symptoms occur.			
In case of eye contact		: If in eyes, r	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.			
If sv	If swallowed : If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		d, DO NOT induce vomiting. I attention if symptoms occur.			
and dela Pro	at important symptoms effects, both acute and ayed tection of first-aiders es to physician	: Contact wit the skin. Dust contact : No special	h dust can cause mechanical irritation or drying of et with the eyes can lead to mechanical irritation. precautions are necessary for first aid responders. tomatically 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	:	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.
Hazardous combustion prod- ucts	:	Carbon 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	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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.

**SAFETY DATA SHEET** according to the Hazardous Products Regulations



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Methods and materials for containment and cleaning up	<ul> <li>Local authorities cannot be contained : Sweep up or varion container for dis Avoid dispersal with compressed Dust deposits ships surfaces, as the released into the Local or nationain disposal of this right employed in the determine which Sections 13 and</li> </ul>	cuum up spillage and collect in suitable sposal. of dust in the air (i.e., clearing dust surfaces

### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe dust.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure assessment
	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.
	Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labeled containers.
Materials to avoid	<ul> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types: Strong oxidizing agents</li> </ul>

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis	
		(Form of	ters / Permissible		
		exposure)	concentration		
3-Ethoxycarbonylanilinium methanesulphonate	886-86-2	TWA	70 µg/m3 (OEB 3)	Internal	
	Further information: Skin, DSEN				
		Wipe limit	100 µg/100 cm2	Internal	

according to the Hazardous Products Regulations

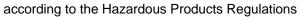


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Engineering measures		c p C a tl	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compou are required to control at source and to prevent migration the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.			
Pe	ersonal protective equipme	ent				
	espiratory protection Filter type and protection	e r	exposure assessn	exhaust ventilation is not available or nent demonstrates exposures outside the delines, use respiratory protection.		
	Material	: 0	Chemical-resistan	t gloves		
Ey	Remarks ve protection	: V li n V p	f the work enviror nists or aerosols, Vear a faceshield	loving. es with side shields or goggles. ment or activity involves dusty conditions, wear the appropriate goggles. or other full face protection if there is a contact to the face with dusts, mists, or		
Sk	kin and body protection	: V A ta C	Vork uniform or la Additional body ga ask being perform lisposable suits) t	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, o avoid exposed skin surfaces. egowning techniques to remove potentially		
Hy	/giene measures	: li e v V V T e a	f exposure to che eye flushing syste vorking place. When using do no Vash contaminate The effective oper engineering contro appropriate degow	mical is likely during typical use, provide ms and safety showers close to the t eat, drink or smoke. ed clothing before re-use. ation of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the		

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Crystalline powder
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4.1 - 7.4





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	Melting	point/freezing point	:	149 - 150 °C	
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	•
	Density	,	:	No data available	•
	Solubili Wate	ty(ies) er solubility	:	110 g/l	
	Partition octanol	n coefficient: n-	:	log Pow: 1.7	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	ty osity, kinematic	:	Not applicable	
	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	:	No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.



# **Tricaine Mesylate**

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	cal stability ility of hazardous reac-	:	handling or othe	sive dust-air mixture during processing,
Conditions to avoid Incompatible materials Hazardous decomposition products			Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known.	

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation 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:**

### 3-Ethoxycarbonylanilinium methanesulphonate:

Acute oral toxicity	:	LD50 (Rat): 5,200 mg/kg
		LD50 (Mouse): 2,400 mg/kg
		LD50 (Dog): 4,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

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ersion 1	Revision Date: 09/30/2023	SDS Number: 4834821-00010	Date of last issue: 04/04/2023 Date of first issue: 09/10/2019
<u>Com</u>	oonents:		
3-Eth	oxycarbonylaniliniu	m methanesulphona	ate:
Geno	toxicity in vitro		cterial reverse mutation assay (AMES) Salmonella typhimurium ve
	cell mutagenicity -	: Weight of evic cell mutagen.	lence does not support classification as a germ
	nogenicity lassified based on ava	ilable information.	
-	oductive toxicity lassified based on ava	ailable information	
	oonents:		
3-Eth	oxycarbonylaniliniu	m methanesulphona	ate:
	oductive toxicity - As-	-	lence does not support classification for
STOT	-single exposure		
Not c	lassified based on ava	ailable information.	
Com	<u>oonents:</u>		
3-Eth	oxycarbonylaniliniu	m methanesulphona	ate:
Asses	ssment		e or mixture is not classified as specific target t, single exposure.
	<b>F-repeated exposure</b> lassified based on ava	ailable information.	
Aspir	ation toxicity		
-	lassified based on ava	ailable information.	
Expe	rience with human e	xposure	
Com	oonents:		
3-Eth	oxycarbonylaniliniu	m methanesulphona	ite:
Gene	ral Information	: Target Organs Symptoms: Bl	

	Target Organs: Central nervous system
	Symptoms: seizures, Coma, Irregular cardiac activity, Res-
	piratory disorders
Skin contact	: Target Organs: Eye
	Symptoms: Eye disease
	Target Organs: Skin
	Symptoms: Sensitization

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SECTION	12. ECOLOGICAL INI	FOR	MATION	
Ecot	oxicity			
<u>Com</u>	ponents:			
3-Eth	noxycarbonylaniliniun	n me	thanesulphonate	2:
Toxic	sity to microorganisms	:	EC50 (Tetrahyn Exposure time: Method: No data	
	<b>istence and degradab</b> ata available	ility		
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
3-Eth	noxycarbonylaniliniun	n me	thanesulphonate	<b>e</b> :
Bioad	ccumulation	:		n factor (BCF): 4.76 Test Guideline 305
Mobi	ility in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			
SECTION	13. DISPOSAL CONS	SIDE	RATIONS	
Disp	osal methods			

: Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
: 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

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



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#### **Domestic regulation**

TDG Not regulated as a dangerous good Special precautions for user

Not applicable

#### SECTION 15. REGULATORY INFORMATION

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

AICS	: not determined
DSL	: not determined
IECSC	: not determined

### SECTION 16. OTHER INFORMATION

#### 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 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

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compil Data S	on Date	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/

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