

## **Tricaine Mesylate**

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 30.09.2023
4.2		4834858-00011	Date of first issue: 10.09.2019

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Product code		Tricaine Mesylate 3-Ethoxycarbonylanilinium methanesulphonate,Tricaine
Manufacturer or supplier's	deta	ails
Company name of supplier Address	:	MSD 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 c	her	nical and restrictions on use
Recommended use	:	Veterinary product

## SECTION 2. HAZARDS IDENTIFICATION

### **GHS Classification**

Restrictions on use

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.

: Not applicable

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

		ubstance Ethoxycarbonylanilinium methanesulphonate
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## CAS-No. : 886-86-2

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
3-Ethoxycarbonylanilinium methanesulphonate	886-86-2	>= 90 -<= 100

#### SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical
		advice.
If inhaled	:	If inhaled, remove to fresh air.
		Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap.
		Get medical attention if symptoms occur.



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In case of eye contact		:	If in eyes, rinse	well with water. Intion if irritation develops and persists.		
If swallowed		:	If swallowed, DC Get medical atte	wallowed, DO NOT induce vomiting. medical attention if symptoms occur. se mouth thoroughly with water.		
Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	Contact with due the skin. Dust contact wit No special prece	tically 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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for	:	Sweep up or vacuum up spillage and collect in suitable



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contai	nment and cleaning up	Avoid dispersal of with compressed Dust deposits shi surfaces, as thes released into the Local or national disposal of this m employed in the determine which Sections 13 and	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 Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>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.</li> </ul>
Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working 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 use of administrative controls.</li> </ul>
Conditions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store in accordance with the particular national regulations.</li> </ul>
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

## 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
3-Ethoxycarbonylanilinium	886-86-2	TWA	70 µg/m3 (OEB 3)	Internal



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	metha	nesulphonate		Further informa	ation: Skin, DSE			
					Wipe limit	100 µg/100 cm2	Internal	
	Engineering measures			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 containment devices). Minimize open handling.				
	Perso	nal protective equip	ment					
	Respiratory protection			<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> </ul>				
		er type protection	:	: Particulates type				
	Ма	terial	:	Chemical-resistant gloves				
	Re	marks	:	Consider dout	ole alovina.			
	Eye pr	rotection	<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>			ere is a		
	Skin a	nd body protection	:	Additional boo task being per disposable su	formed (e.g., sle its) to avoid exp te degowning te	at. uld be used based u eevelets, apron, gau osed skin surfaces. echniques to remove	ntlets,	

### 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
Melting point/freezing point	:	149 - 150 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available



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	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	May form explos handling or other	ive dust-air mixture during processing, means.
	Flamm	ability (liquids)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	110 g/l	
	Partitio octano	n coefficient: n-	:	log Pow: 1.7	
		nition temperature	:	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.
	Molecu	ılar weight	:	No data available	2
	Particle Particle	e characteristics e size	:	No data available	9

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents



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Haza prod		: No hazardous	decomposition products are known.
SECTION	11. TOXICOLOGICAL	INFORMATION	
Inhal Skin Inge		s of exposure	
Acut	contact t <b>e toxicity</b> classified based on avai	able information	
	iponents:		
	hoxycarbonylanilinium	n methanesulphona	te:
	e oral toxicity	: LD50 (Rat): 5,2	
		LD50 (Mouse)	2,400 mg/kg
		LD50 (Dog): 4,	000 mg/kg
-	corrosion/irritation	lable information.	
	ous eye damage/eye ir classified based on avai		
Res	oiratory or skin sensiti	zation	
-	sensitization	lable information.	
-	<b>piratory sensitization</b> classified based on avai	lable information.	
	n cell mutagenicity classified based on avai	lable information.	
Com	ponents:		
	hoxycarbonylanilinium otoxicity in vitro	: Test Type: Bad	cterial reverse mutation assay (AMES) almonella typhimurium
	n cell mutagenicity - essment	: Weight of evide cell mutagen.	ence does not support classification as a germ
	<b>inogenicity</b> classified based on avai	lable information.	
-	roductive toxicity classified based on avai	lable information.	



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<u>(</u>	Compo	onents:			
3	3-Etho	xycarbonylanilinium	met	hanesulphonate:	
F		luctive toxicity - As-	:	-	e does not support classification for ity
		single exposure ssified based on availa	ble	information.	
<u>(</u>	Compo	onents:			
3	3-Etho	xycarbonylanilinium	met	hanesulphonate:	
ŀ	Assess	ment	:	The substance or organ toxicant, sir	mixture is not classified as specific target ngle exposure.
		repeated exposure ssified based on availa	ble	information.	
	•	tion toxicity ssified based on availa	ble	information.	
E	Experie	ence with human exp	osu	re	
<u>c</u>	Compo	onents:			
3	3-Etho	xycarbonylanilinium	met	hanesulphonate:	
(	Genera	I Information	:		disorders entral nervous system res, Coma, Irregular cardiac activity, Res-
S	Skin co	ntact	:	Target Organs: Eye d Symptoms: Eye d Target Organs: Sl Symptoms: Sensi	ye isease kin
SECT	FION 1	2. ECOLOGICAL INFO	DRN	IATION	
E	Ecotox	ticity			
		onents:			
3	3-Etho	xycarbonylanilinium	met	hanesulphonate:	
		to microorganisms	:	-	
		t <b>ence and degradabili</b> a available	ty		
		umulative potential			
		-			

#### Components:

3-Ethoxycarbonylanilinium methanesulphonate:



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Bioac	cumulation		on factor (BCF): 4.76 Test Guideline 305
Mobil	ity in soil		
No da	ta available		
Other	adverse effects		
•	adverse effects ta available		
No da		DERATIONS	
No da	ta available 13. DISPOSAL CONS	: Do not dispose	of waste into sewer. ccordance with local regulations.

### 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.

### **Domestic regulation**

### NOM-002-SCT

Not regulated as a dangerous good

### Special precautions for user

Not applicable

### **SECTION 15. REGULATORY INFORMATION**

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

AICS		not determined
DSL	:	not determined



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IECSC	:	: not determined	

### **SECTION 16. OTHER INFORMATION**

Revision Date	: 28.09.2024
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#### 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

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.