

Version 5.0	Revision Date: 04.04.2023		9S Number: 14386-00020	Date of last issue: 20.01.2023 Date of first issue: 25.05.2017			
SECTION	1. IDENTIFICATION						
Produ	Product name		: Embutramide / Mebezonium / Tetracaine Formulation				
Manu	facturer or supplier's	deta	ills				
Comp	bany	:	MSD				
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Telephone		:	908-740-4000				
Emergency telephone		:	1-908-423-6000				
E-ma	il address	:	EHSDATASTEV	VARD@msd.com			
Reco	mmended use of the	chem	nical and restricti	ons on use			
Reco	mmended use	:	Veterinary produ	uct			
Restrictions on use		:	Not applicable				

## **SECTION 2. HAZARDS IDENTIFICATION**

	GHS Classification		
	Flammable liquids	:	Category 4
	Acute toxicity (Oral)	:	Category 4
	Acute toxicity (Inhalation)	:	Category 4
	Acute toxicity (Dermal)	:	Category 4
I	Serious eye damage/eye irritation	:	Category 2A
•	Reproductive toxicity	:	Category 1B
	Specific target organ toxicity - single exposure	:	Category 3
	GHS label elements		
	Hazard pictograms	:	

Signal Word

: Danger



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Hazard Statements		<ul> <li>H227 Combustible liquid.</li> <li>H302 + H312 + H332 Harmful if swallowed, in contact wi or if inhaled.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H360D May damage the unborn child.</li> </ul>				
Precautionary Statements		P202 Do not ha and understood P210 Keep aw and other igniti P261 Avoid bre P264 Wash ski P270 Do not ea P271 Use only P280 Wear prot tion/ face prote <b>Response:</b> P301 + P312 + CENTER/ doct P302 + P352 + ter.Call a POIS P304 + P340 +	ay from heat, hot surfaces, sparks, open flames on sources. No smoking. eathing mist or vapors. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. otective gloves/ protective clothing/ eye protec-			
		doctor if you fe P305 + P351 + for several min easy to do. Co P308 + P313 II attention. P337 + P313 If tention.	el unwell. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and			
		<b>Storage:</b> P405 Store loc	ked up.			
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste			
	r hazards which do no rs may form explosive		tion			

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
N,N-Dimethylformamide	68-12-2	>= 50 -< 70
Embutramide	15687-14-6	>= 20 -< 25
Mebezonium iodide	7681-78-9	>= 5 -< 10
tetracaine hydrochloride	136-47-0	>= 0,1 -< 1

#### **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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case 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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. May cause drowsiness or dizziness. May damage the unborn child.
Protection of first-aiders Notes to physician	:	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). Treat symptomatically and supportively.
	•	Toat symptomationly and supportively.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air.



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			Exposure to comb	oustion products may be a hazard to health.				
Hazaro ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (I	NOx)				
Specific extinguishing meth- ods		:	cumstances and t Use water spray t	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				
	l protective equipment fighters	:						
SECTION 6	6. ACCIDENTAL RELE	AS	E MEASURES					
tive eq	nal precautions, protec- uipment and emer- procedures	:						
Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages				
	ds and materials for ment and cleaning up	:	Suppress (knock jet. For large spills, procontainment to ket can be pumped, so container. Clean up remaining absorbent. Local or national in disposal of this more employed in the co determine which in Sections 13 and 1	s should be used. absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng 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 egulations are applicable. 5 of this SDS provide information regarding tional requirements.				

### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing.



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Conditions for safe storage		Handle in accord practice, based of assessment Keep container t Keep away from other ignition sou Take precautions Do not eat, drink Take care to pre environment.	es. ughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure ightly closed. heat, hot surfaces, sparks, open flames and urces. No smoking. ary measures against static discharges. or smoke when using this product. vent spills, waste and minimize release to the labeled containers.			
Mat	erials to avoid	<ul> <li>Keep tightly closed.</li> <li>Keep in a cool, well-ventilated place.</li> <li>Store in accordance with the particular national regulations.</li> <li>Keep away from heat and sources of ignition.</li> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> <li>Explosives</li> <li>Gases</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		
N,N-Dimethylformamide	68-12-2	CMP	10 ppm	AR OEL	
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen,	
	Skin			_	
		TWA	5 ppm	ACGIH	
Embutramide	15687-14-6	TWA	10 µg/m3 (OEB 3)	Internal	
		STEL	30 µg/m3	Internal	
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal	
Mebezonium iodide	7681-78-9	TWA	1 µg/m3 (OEB 4)	Internal	
		STEL	3 µg/m3 (OEB 4)	Internal	
tetracaine hydrochloride	136-47-0	TWA	5 µg/m3 (OEB 4)	Internal	
	Further inform	Further information: DSEN, Skin			
		Wipe limit	50 µg/100 cm <sup>2</sup>	Internal	

### **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	



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N,N-	Dimethylformamide	68-12-2	N- methylforma mide	Urine	End of shift	15 mg/l	AR BEI
			N-acetyl-S- (N- methylcarba moyl) cisteine	Urine	Prior to last shift of work- week	40 mg/l	AR BEI
			Total N- Methylforma mide	Urine	End of shift (As soon as possible after exposure ceases)	30 mg/l	ACGIH BEI
			N-Acetyl-S- (N- methylcarba moyl) cysteine	Urine	End of shift at end of work- week	30 mg/l	ACGIH BEI
		pr Es Us If ca pc ex	esign and opera otect products, ssentially no op se closed proce handled in a lab abinet, fume hoo otential exists fo kist, handle over	workers, and en handling ssing syster poratory, use od, or other o r aerosolizat	d the enviro permitted. ns or contai a properly containmen tion. If this p	inment. designed bit t device if th potential doe	nologies. iosafety ie
	onal protective equ iratory protection	: If ex	adequate local posure assessi commended gu	ment demon	strates exp	osures outs	ide the
	Iter type I protection	: Co	ombined particu pe				
	aterial	: CI	hemical-resistar	nt gloves			
R	emarks	fla	onsider double g ammable, which				is
	protection and body protection	: W If W PC ae : W Ad	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. Additional body garments should be used based upon the				
			sk being perforr sposable suits)				eis,



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Hygie	ene measures	contaminated c If exposure to c eye flushing sys working place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	5 - 6
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	81 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (solid, gas) Flammability (liquids)	:	Not applicable Not applicable
Flammability (liquids) Upper explosion limit / Upper	:	Not applicable
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	Not applicable No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	:	Not applicable No data available No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure	:	Not applicable No data available No data available No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure Relative vapor density	:	Not applicable No data available No data available No data available No data available



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	Water solubility	:	soluble	
	tition coefficient: n- anol/water	:	No data available	9
	oignition temperature	:	No data available	9
Decomposition temperature		:	No data available	9
	cosity Viscosity, kinematic	:	No data available	e
Explosive properties		:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мо	lecular weight	:	Not applicable	
Par	ticle size	:	Not applicable	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Combustible liquid. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of	:	
exposure		Skin contact
		Ingestion
		Eye contact

## Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: 1.224 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 19,41 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 1.942 mg/kg



<u>onents:</u> imethylformamide:	_	Method: Calculation	on method
imethylformamide:			
•			
oral toxicity	:	LD50 (Rat): 3.010	mg/kg
inhalation toxicity	:	Aquita toxiaity activ	moto: 11 mg/l
		Exposure time: 4 I Test atmosphere: Method: Expert ju	h vapor
dermal toxicity	:	Method: Expert ju	mate: 1.100 mg/kg dgment on national or regional regulation.
tramide:			
oral toxicity	:	LD50 (Rat): 1.550	mg/kg
toxicity (other routes of stration)	:	LD50 (Dog): 31 m Application Route	
		TDLo (Dog): 15,5 Application Route Symptoms: narcos	: Intravenous
		LD50 (Horse): 20 Application Route	
		LD50 (sheep): 80 Application Route	
		LD50 (Pig): 100 m Application Route	
onium iodide:			
oral toxicity	:	LD50 (Rat, female	e): 200 - 300 mg/kg
toxicity (other routes of stration)	:	LC50 (Dog): 15 m Application Route	
aine hydrochloride:			
toxicity (other routes of stration)	:	LD50 (Rat): 6 mg/ Application Route	
		LD50 (Mouse): 6 r Application Route	
	evonium iodide: oral toxicity dermal toxicity tramide: oral toxicity toxicity (other routes of stration) conium iodide: oral toxicity toxicity (other routes of stration) aine hydrochloride: toxicity (other routes of	oral toxicity:inhalation toxicity:inhalation toxicity:dermal toxicity:tramide: oral toxicity (other routes of stration):conium iodide: oral toxicity (other routes of stration):toxicity (other routes of stration):	oral toxicity:LD50 (Rat): 3.010inhalation toxicity:Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based of Acute toxicity estin Method: Expert ju Remarks: Based of toxicity (other routes of stration):tramide: oral toxicity:LD50 (Rat): 1.550 (Rat): 1.550 (Dog): 31 m Application Route Symptoms: narco LD50 (Dog): 15,5 Application Route Symptoms: narco LD50 (Horse): 20 Application Route LD50 (Sheep): 80 Application Route LD50 (Pig): 100 m Application Route LD50 (Pig): 100 m Application Route stration)toxicity (other routes of toxicity (other routes of stration):LD50 (Pig): 100 m Application Routetoxicity (other routes of stration):LD50 (Rat, female toxicity (other routes of stration)inh hydrochloride: toxicity (other routes of stration):LD50 (Rat): 6 mg/ Application Route LD50 (Mouse): 6 mg/ Application Route



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Skin	corrosion/irritation		
Not c	lassified based on ava	ilable information.	
Com	ponents:		
N,N-[	Dimethylformamide:		
Spec Resu		: Rabbit : No skin irritation	n
	ous eye damage/eye i es serious eye irritation		
	ponents:		
N,N-[	Dimethylformamide:		
Spec		: Rabbit	
Resu	lt	: Irritation to eyes	s, reversing within 21 days
Resp	iratory or skin sensit	tization	
Skin	sensitization		
Not c	lassified based on ava	ilable information.	
-	iratory sensitization lassified based on ava	ilable information.	
Com	ponents:		
N,N-[	Dimethylformamide:		
Test			de assay (LLNA)
Route	es of exposure	: Skin contact : Mouse	
Resu	lt	: negative	
tetra	caine hydrochloride:		
	es of exposure	: Dermal	
Resu		: Sensitizer	
Germ	n cell mutagenicity		
Not c	lassified based on ava	ilable information.	
Com	ponents:		
	Dimethylformamide:		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
		Test Type: Chro Result: negative	omosome aberration test in vitro e
••		10 / 17	·
		10/17	



ersion 0	Revision Date: 04.04.2023	SDS Number: 1714386-00020	Date of last issue: 20.01.2023 Date of first issue: 25.05.2017
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative
Geno	toxicity in vivo	cytogenetic Species: Me	ouse Route: Intraperitoneal injection
		Species: Ra	Route: inhalation (vapor)
		Species: Mo	Route: Intraperitoneal injection
tetrac	caine hydrochloride:		
	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: equ	Chromosomal aberration ivocal
Geno	toxicity in vivo	: Test Type: Species: Ra Result: neg	
	inogenicity		
	lassified based on ava ponents:	able information.	
N,N-L	Dimethylformamide:	: Rat	
Applic	cation Route	: inhalation (v	/apor)
Expos	sure time od	: 2 Years : OECD Test	Guideline 451
Resu		: negative	
Speci		: Mouse	
	cation Route sure time	: inhalation (v : 18 Months	vapor)
Metho	od	: OECD Test	Guideline 451
Resu	lt	: negative	

## Reproductive toxicity

May damage the unborn child.



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<u>Com</u>	ponents:			
N,N-I	Dimethylformamide:			
Effec	Effects on fertility		Test Type: Two-g Species: Mouse Application Route Result: negative	
			Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Skin contact
Effec	ts on fetal development	:	Species: Rabbit Application Route	vo-fetal development e: inhalation (vapor) est Guideline 414
			Species: Rabbit Application Route	vo-fetal development e: Skin contact est Guideline 414
Repr sessi	oductive toxicity - As- ment	:	Clear evidence of animal experiment	f adverse effects on development, based on nts.
tetra	caine hydrochloride:			
	ts on fertility	:	Test Type: Fertilit Species: Rat, ma Application Route Fertility: NOAEL: Result: No effects	le and female e: Subcutaneous 7,5 mg/kg body weight
Effec	ts on fetal development	:	Test Type: Develor Species: Rat Application Route Developmental To Result: No terato	e: Subcutaneous oxicity: NOAEL: 5 mg/kg body weight
			Test Type: Develo Species: Rabbit Application Route Developmental To Result: No teratog	e: Subcutaneous oxicity: NOAEL: 10 mg/kg body weight

### STOT-single exposure

May cause drowsiness or dizziness.



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<u>Comp</u>	oonents:				
Embu	utramide:				
Asses		: May cause dr	owsiness or dizziness.		
	zonium iodide:				
l arge	et Organs ssment	: Nervous syst	em, muscle amage to organs.		
A3363	Silicit	. May cause us	anage to organs.		
	aine hydrochloride:				
	t Organs		us system, Cardio-vascular system		
Asses	ssment	: Causes dama	age to organs.		
STOT	-repeated exposure				
Not cl	assified based on ava	ilable information.			
Repea	ated dose toxicity				
Comp	oonents:				
N,N-D	Dimethylformamide:				
Speci		: Rat			
NOAE	EL	: 238 mg/kg			
LOAE	:L cation Route	: 475 mg/kg : Ingestion			
	sure time	: 28 Days			
Speci	es	: Rat			
NOAE	EL	: 0,08 mg/l			
LOAE	L	: 0,3 mg/l			
	cation Route sure time	: inhalation (vapor) : 2 y			
•	ation toxicity assified based on ava				
Expe	rience with human e	xposure			
Comp	oonents:				
Embu	utramide:				
Inhala		: Target Organ	s: Central nervous system		
		Symptoms: D	rowsiness, Central nervous system depression ness, Shortness of breath		
Mebe	zonium iodide:				
Inhala	ation	: Symptoms: V	/eakness, Fatigue, Breathing difficulties		
totrac	aine hydrochloride:				
lellau		· Target Organ	s: Cardio-vascular system		
Inhala	ation	. Taiyet Olyan			
	ation	Target Organ	s: Central nervous system entral nervous system depression, Dizziness,		



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s	Skin contact		:	Headache, hypotension, Vomiting : Symptoms: Redness, pruritis	
SECT	ION 1	2. ECOLOGICAL INFO	DRN	IATION	
E	cotox	ticity			
		onents:			
Ν	l,N-Dii	methylformamide:			
Т	oxicity	/ to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 7.100 mg/l Sh
		to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 13.100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
	oxicity lants	/ to algae/aquatic	:	ErC50 (Desmode mg/l Exposure time: 72	smus subspicatus (green algae)): > 1.000 2 h
				EC10 (Desmodes mg/l Exposure time: 72	mus subspicatus (green algae)): > 1.000 2 h
a	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 1.500 mg/l ⊢d
E	mbut	ramide:			
Т	oxicity	/ to fish	:	LC50 : 21 mg/l Exposure time: 96 Method: OECD Te	
т	oxicity	<i>i</i> to microorganisms	:	EC50: > 1.000 mg Exposure time: 24 Test Type: Respir Method: OECD To	h ation inhibition of activated sludge
P	ersist	tence and degradabili	ity		
<u>c</u>	compo	onents:			
N	l,N-Diı	methylformamide:			
В	liodeg	radability	:	Result: Readily bi Biodegradation: 1 Exposure time: 21 Method: OECD To	100 %



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Bioac	cumulative potential				
Comp	oonents:				
N,N-D	imethylformamide:				
Bioac	Bioaccumulation		Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 0,3 - 1,2 Method: OECD Test Guideline 305C		
	Partition coefficient: n- octanol/water		log Pow: -0,93 Remarks: Calculation		
	<b>ity in soil</b> ta available				
•	adverse effects ta available				
SECTION	13. DISPOSAL CONSI	DEF	RATIONS		

#### **Disposal methods**

Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Empty containers retain residue and can be dangerous.</li> <li>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

#### **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.

#### Special precautions for user

Not applicable



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

Safety, health and environmental regulations/legisl mixture	ation specific for the substance or
Argentina. Carcinogenic Substances and Agents Registry.	: Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	: 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**

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#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of other abbreviations

ACGIH BEI	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Argentina. Biological Exposure Indices Argentina. Occupational Exposure Limits
	8-hour, time-weighted average TLV (Threshold Limit Value)

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



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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.

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