Hazard pictograms

Hazard statements

Signal word



# **Netobimin Formulation**

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1. PROI	DUCT AND COMPANY IDE	ENT	IFICATION			
Pro	oduct name	:	Netobimin Form	nulation		
Ма	nufacturer or supplier's d	letai	ls			
Co	mpany	:	MSD			
Ado	dress	:	126 E. Lincoln Rahway, New	Avenue Jersey U.S.A. 07065		
Tel	ephone	:	908-740-4000			
Em	ergency telephone number	:	1-908-423-600	0		
E-n	nail address	:	EHSDATASTE	WARD@msd.com		
Re	commended use of the ch	nem	ical and restric	tions on use		
	commended use	:	: Veterinary product			
Res	strictions on use	:	Not applicable			
2. HAZA	ARDS IDENTIFICATION					
GH	S Classification					
Αсι	ute toxicity (Inhalation)	:	Category 4			
Ser tati	rious eye damage/eye irri- on	:	Category 2B			
Rej	productive toxicity	:	Category 2			
	ecific target organ toxicity - eated exposure (Oral)	:	Category 1 (Te	stis, Liver, Skin, Gastrointestinal trac		
GH	S label elements					

H332 Harmful if inhaled.
H361fd Suspected of dar
ing the unborn child.

H320 Causes eye irritation.

2

2

:

Danger

H372 Causes damage to organs (Testis, Liver, Skin, Gastrointestinal tract) through prolonged or repeated exposure if swal-

of damaging fertility. Suspected of damag-



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_			
		lawad	
		lowed.	
Preca	autionary statements	Prevention:	
		P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P271 Use only	vereathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. / outdoors or in a well-ventilated area. otective gloves/ protective clothing/ eye protec-
		Response:	
		P304 + P340 + and keep com doctor if you fe P305 + P351 + for several min easy to do. Co P308 + P313 I attention.	+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and
		Storage:	
		P405 Store loc	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste
Otho	r hazards which do n		
	known.	ol lesuit in classifica	
COMPC	OSITION/INFORMATIO	ON ON INGREDIENTS	5
Subs	tance / Mixture	: Mixture	
	ponents		

· · ·		
Chemical name	CAS-No.	Concentration (% w/w)
Netobimin	88255-01-0	>= 10 -< 30

#### 4. FIRST AID MEASURES

General advice	:	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	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration.



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In case of skin contact In case of eye contact		Get : In c Rer	medical atter	t, immediately flush skin with plenty of water. nated clothing and shoes.	
		Wa Tho : In c for : If ea	<ul> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> <li>In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> </ul>		
lf swa	llowed	: If sv Get	medical atter	NOT induce vomiting. ition.	
Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		: Cau Har Sus unb Cau	uses eye irrita mful if inhaled spected of dar orn child. uses damage	l. naging fertility. Suspected of damaging the to organs through prolonged or repeated	
		<ul> <li>exposure if swallowed.</li> <li>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).</li> <li>Treat symptomatically and supportively.</li> </ul>			
5. FIREFIC	GHTING MEASURES				
Suitat	ble extinguishing media	Alco Car	ter spray ohol-resistant bon dioxide (( chemical		
Unsui media	table extinguishing		ne known.		
	fic hazards during fire-	: Exp	osure to com	pustion products may be a hazard to health.	
Hazar ucts	dous combustion prod-	Nitr	bon oxides ogen oxides ( phur compour		
Speci ods	fic extinguishing meth-	cun Use Rer so.	nstances and e water spray move undama	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	al protective equipment	: In t		e, wear self-contained breathing apparatus. tective equipment.	

# Personal precautions, protec-<br/>tive equipment and emer-<br/>gency proceduresUse personal protective equipment.<br/>Follow safe handling advice (see section 7) and personal pro-<br/>tective equipment recommendations (see section 8).



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	Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.
7. H/		IG AND STORAGE			
	Technic	cal measures	:		measures under EXPOSURE SONAL PROTECTION section.
	Local/T	otal ventilation	:		tion is unavailable, use with local exhaust
	Advice	on safe handling	:	<ul> <li>ventilation.</li> <li>Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and sa practice, based on the results of the workplace exposure a sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to environment.</li> </ul>	
	Conditi	ons for safe storage	:	Keep in properly I Store locked up. Keep tightly close	abelled containers. d. ell-ventilated place.
	Materia	lls to avoid	:	Store in accordan	ce with the particular national regulations. the following product types:



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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
Netobimin	88255-01-0	TWA	70 ug/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	700 ug/100cm2	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. 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 equipment	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. 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 :	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 :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing 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,



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appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

	use of administrative controls.			
9. PHYSICAL AND CHEMICAL PROPERTIES				
:	suspension			
:	yellow			
:	No data available			
:	No data available			
:	4.5 - 6.5			
:	No data available			
:	No data available			
:	No data available			
:	No data available			
:	Not applicable			
:	No data available			
:	No data available			
:	No data available			
:	No data available			
:	No data available			
:	No data available			
:	1,070 - 1,085 g/cm³			
:	No data available			
:	Not applicable			
:	No data available			
:	No data available			



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Vis	cosity, kinematic	:	No data availabl	e
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance of	or mixture is not classified as oxidizing.
Molec	ular weight	:	No data availabl	e
Particl Particl	e characteristics e size	:	Not applicable	
STABI	LITY AND REACTIVITY	,		
Possik	ivity ical stability pility of hazardous reac-	:	Stable under no	a reactivity hazard. mal conditions. trong oxidizing agents.
Incom	tions to avoid patible materials dous decomposition cts	:	None known. Oxidizing agents No hazardous de	ecomposition products are known.
	OLOGICAL INFORMAT	101	1	
Inform expos	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	t <b>oxicity</b> ul if inhaled.		-	
Produ	ict:			
Acute	inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	h : dust/mist
<u>Comp</u>	onents:			
Netob	imin:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
Acute	inhalation toxicity	:	LCLo (Rat): 0.19 Test atmosphere	



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#### **Components:**

Netobimin:	

Species	:	Rabbit
Method	:	Draize Test
Result	:	Mild skin irritation

#### Serious eye damage/eye irritation

Causes eye irritation.

#### Components:

#### Netobimin:

Species	:	Rabbit
Result Method	:	Mild eye irritation
Method	:	Draize Test

#### 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:

**Netobimin:** 

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Result: positive

#### Carcinogenicity

Not classified based on available information.



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	ponents: bimin:			
Speci Appli	ies cation Route sure time	: : :	Rat Oral 1 Years No significant a	dverse effects were reported
-	oductive toxicity	lity C	Suspected of day	naging the unborn child.
	ponents:	my. C	suspected of dan	
Neto	bimin:			
Effec	ts on fertility	:	Species: Rat Application Rot	y F1: NOAEL: 15 mg/kg body weight
Effec ment	ts on foetal develop-	:	Test Type: Dev Species: Rat Application Rou Developmental	
			Test Type: Dev Application Rou Developmental	
			Test Type: Dev Application Rou Developmental Target Organs: Result: Fetotox	ute: Oral Toxicity: LOAEL: 60 mg/kg body weight Testes
			Test Type: Dev Species: Rabbi Application Rou Developmental	t
				t



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#### effects

		Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 5 mg/kg body weight Result: Teratogenicity and developmental toxicity
Reproductive toxicity - As- sessment	:	Suspected of damaging fertility. Suspected of damaging the unborn child.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs (Testis, Liver, Skin, Gastrointestinal tract) through prolonged or repeated exposure if swallowed.

#### Components:

#### Netobimin:

Exposure routes Target Organs Assessment	: Oral
Target Organs	: Testis, Liver, Skin, Gastrointestinal tract
Assessment	: Shown to produce significant health effects in animals at con-
	centrations of 10 mg/kg bw or less.

#### Repeated dose toxicity

#### **Components:**

#### Netobimin:

Species NOAEL Application Route Exposure time Target Organs Symptoms	:	Rat 60 mg/kg Oral 1 yr Testis male reproductive effects
Species LOAEL Application Route Exposure time Target Organs Symptoms		Rat 15 mg/kg Oral 1 yr Liver Irregularities
Species NOAEL Application Route Exposure time Target Organs Symptoms Remarks	:	Rat 7 mg/kg Oral 1 yr Skin Irregularities Based on data from similar materials



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Spec LOAE Appli		: Rat : 38 mg/kg : Oral	
Expo	sure time et Organs	: 90 d : Skin, Testis	s, male reproductive effects
Expo	cation Route sure time et Organs	: Dog : Oral : 90 d : Gastrointes : Diarrhoea, Y	
Not c	ration toxicity lassified based on ava		
-	rience with human e	xposure	
	ponents:		
Neto Inges	bimin: tion		The most common side effects are:, Dizziness, Abdominal pain, Gastrointestinal discomfort, Vom-
12. ECOL	OGICAL INFORMATI	ON	
	<b>oxicity</b> ata available		
	<b>stence and degradal</b> ata available	bility	
	<b>ccumulative potentia</b> ata available	1	
	<b>lity in soil</b> ata available		
	<b>r adverse effects</b> ata available		

# 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.



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#### **14. TRANSPORT INFORMATION**

#### International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous	<ul> <li>Not applicable</li> </ul>
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	<ul> <li>Not applicable</li> </ul>
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	<ul> <li>Not applicable</li> </ul>

#### 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

#### **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





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Gove stanc	-	o. 74 of 2001 on the N	lanager	nent of Hazardous and Toxic Sub-		
Hazai	rdous substances appre	oved for use	:	Not applicable		
Prohil	bited substances		:	Not applicable		
Restr	icted substances		:	Not applicable		
Regu Mater		of Trade No. 7 of 202	2 on Dis	stribution and Control of Hazardous		
	of hazardous materials bl, Annex I	subject to distribution	and :	Not applicable		
	of hazardous materials bl, Annex II	subject to distribution	and :	Not applicable		
The components of this product are reported in the following inventories:						
AICS		: not determined				
DSL		: not determined				
IECS	C	: not determined				

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

Revision Date	:	2024/07/06
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- 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.

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



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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.

ID / EN