

according to the Globally Harmonized System

## **Netobimin Formulation**

Versior 4.0	n Revision Date: 28.09.2024		S Number: 40433-00011	Date of last issue: 06.07.2024 Date of first issue: 04.05.2020	
1. PRO	DUCT AND COMPANY ID	ENT	IFICATION		
Pr	oduct name	:	Netobimin Formulation		
Ма	anufacturer or supplier's c	leta	ils		
Co	ompany	:	MSD		
Ad	ldress	:	Briahnager - Off Wagholi - Pune -	Pune Nagar Road India 412 207	
Те	Telephone		+1-908-740-4000	)	
En	Emergency telephone number		+1-908-423-6000	)	
E-	E-mail address		EHSDATASTEWARD@msd.com		
Re	Recommended use of the chemical and restrictions on use				
	ecommended use estrictions on use	:	Veterinary produ Not applicable	ct	

### 2. HAZARDS IDENTIFICATION

### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

#### Classification

Signal word

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS label elements		
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Testis, Liver, Skin, Gastrointestinal tract)
Reproductive toxicity	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2B
Skin corrosion/irritation	:	Category 3
Acute toxicity (Inhalation)	:	Category 4

Hazard pictograms	

: Danger

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Haza	rd statements	H320 Causes H332 Harmful H361fd Suspe ing the unborn H372 Causes	if inhaled. cted of damaging fertility. Suspected of damag
Precautionary statements		P260 Do not b P264 Wash ha P270 Do not e P271 Use only	read and follow all safety instructions before us breathe mist or vapours. ands thoroughly after handling. eat, drink or smoke when using this product. / outdoors or with adequate ventilation. otective gloves/ protective clothing/ eye protec- ection.
		and keep com P305 + P351 - for several mir easy to do. Co P318 IF expos P332 + P317 I	+ P317 IF INHALED: Remove person to fresh a fortable for breathing. Get medical help. + P338 IF IN EYES: Rinse cautiously with wate butes. Remove contact lenses, if present and ontinue rinsing. sed or concerned, get medical advice. If skin irritation occurs: Get medical help. If eye irritation persists: Get medical help.
		<b>Storage:</b> P405 Store loo	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
	IVIIALUIE

Chemical name	CAS-No.	Concentration (% w/w)
Netobimin	88255-01-0	>= 10 - < 20

### 4. FIRST AID MEASURES

General advice	vice	ne case of accident or if you feel unwell, seek medical ad- immediately. en symptoms persist or in all cases of doubt seek medical ice.
If inhaled	: If in	haled, remove to fresh air.



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In	case of skin contact	If breathing Get medica : In case of c Remove co Get medica	ontact, immediately flush skin with plenty of water. ntaminated clothing and shoes.
In	case of eye contact	Thoroughly : In case of c for at least 2	clean shoes before reuse. ontact, immediately flush eyes with plenty of water 5 minutes. o, remove contact lens, if worn.
lf s	swallowed	: If swallowed Get medical	I, DO NOT induce vomiting. attention.
an	ost important symptoms d effects, both acute and layed	: Causes mild Causes eye Harmful if in Suspected o unborn child Causes dan	haled. of damaging fertility. Suspected of damaging the l. nage to organs through prolonged or repeated
Pro	otection of first-aiders	and use the	ponders should pay attention to self-protection, recommended personal protective equipment
No	tes to physician		otential for exposure exists (see section 8). omatically and supportively.
5. FIRE	FIGHTING MEASURES		
Su	itable extinguishing media	: Water spray Alcohol-resi Carbon diox Dry chemica	stant foam ide (CO2)
	suitable extinguishing edia	: None known	۱.
	ecific hazards during fire- hting	: Exposure to	combustion products may be a hazard to health.
Ha uc	zardous combustion prod- ts	: Carbon oxic Nitrogen oxi Sulphur con	des (NOx)
Sp od	ecific extinguishing meth- s	cumstances Use water s	ishing measures that are appropriate to local cir- and the surrounding environment. pray to cool unopened containers. damaged containers from fire area if it is safe to do ea.
	ecial protective equipment firefighters		of fire, wear self-contained breathing apparatus. al protective equipment.

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6. ACCIDE	NTAL RELEASE MEAS	SUR	ES	
tive ea	nal precautions, protec- quipment and emer- procedures		Follow safe har	rotective equipment. Idling advice (see section 7) and personal pro- ent recommendations (see section 8).
Enviro	onmental precautions	-	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or oil ose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for inment and cleaning up		For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- terial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

### 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. 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 safety practice, based on the results of the workplace exposure as- 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 the environment.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
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
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 containment devices). Minimize open handling.
Personal protective equipme	ent	
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	:	Particulates type
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, disposable 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 working 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4.5 - 6.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,070 - 1,085 g/cm <sup>3</sup>
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available



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Explo	sive properties	:	Not explosive		
Oxidi	zing properties	:	The substance or mixture is not classified as oxidizing.		
Moleo	cular weight	:	No data available		
	Particle characteristics Particle size		Not applicable		
10. STAB	LITY AND REACTIVIT	Y			
Possi tions Cond Incom	tivity nical stability bility of hazardous reac- itions to avoid npatible materials rdous decomposition	- :	Stable under not Can react with s None known. Oxidizing agents	trong oxidizing agents.	
produ	licts	•			
11. TOXIC	OLOGICAL INFORMA	TION	l		
Inforn expos	nation on likely routes o sure	f :	Inhalation Skin contact Ingestion Eye contact		
	e <b>toxicity</b> ful if inhaled.				
Prod	uct:				
	oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method	
Acute	inhalation toxicity	:	: Acute toxicity estimate: 1.27 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
<u>Com</u>	oonents:				
Netol	bimin:				
Acute	e oral toxicity	:	LD50 (Rat): > 2,0	000 mg/kg	
Acute	inhalation toxicity	:	: LCLo (Rat): 0.19 mg/l Test atmosphere: dust/mist		
-	corrosion/irritation es mild skin irritation.				



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#### Components:

### Netobimin:

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

#### Serious eye damage/eye irritation

Causes eye irritation.

### Components:

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

#### 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.

### Components:

### Netobimin:

Species

: Rat



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Appli Expo Rema	cation Route sure time arks	: Oral : 1 Years : No significant				
-	oductive toxicity ected of damaging ferti	lity. Suspected of da	amaging the unborn child.			
Com	ponents:					
Neto	bimin:					
Effec	ts on fertility	Species: Rat Application R	city F1: NOAEL: 15 mg/kg body weight			
Effec ment	ts on foetal develop-	: Test Type: De Species: Rat Application R Development				
		Test Type: De Application R Development				
		Test Type: De Application R Development Target Organ Result: Fetoto	oute: Oral al Toxicity: LOAEL: 60 mg/kg body weight s: Testes			
		Test Type: De Species: Rab Application R Development	bit			
			bit			
			evelopment bit oute: Oral			



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				oxicity: NOAEL: 5 mg/kg body weight nicity and developmental toxicity
Repro sessr	oductive toxicity - As- nent	:	Suspected of dar unborn child.	naging fertility. Suspected of damaging the
	<b>F - single exposure</b> lassified based on availa	able	information.	
STO	Γ - repeated exposure			
Caus			s, Liver, Skin, Gast	rointestinal tract) through prolonged or re-
Com	ponents:			
Netol	bimin:			
Targe	sure routes et Organs ssment	:	Shown to produce	n, Gastrointestinal tract e significant health effects in animals at con- mg/kg bw or less.
Repe	ated dose toxicity			
<u>Com</u>	ponents:			
Netol	bimin:			
Speci		:	Rat	
NOA	EL cation Route	:	60 mg/kg Oral	
	sure time	÷	1 yr	
Targe	et Organs	:	Testis	
Symp	otoms	:	male reproductive	e effects
Spec	ies	:	Rat	
LOAE	EL	:	15 mg/kg	
	cation Route sure time	:	Oral 1 yr	
	et Organs	÷	Liver	
Symp	otoms	:	Irregularities	
Speci	ies		Rat	
NOA		:	7 mg/kg	
	cation Route	:	Oral	
	sure time	:	1 yr	
l arge Symp	et Organs	÷	Skin	
Rema		÷	Irregularities Based on data fro	om similar materials
			Det	
Speci LOAE		÷	Rat 38 mg/kg	
	cation Route	•	Oral	
	sure time	÷	90 d	
Targe	et Organs	:	Skin, Testis	
Symp	otoms	:	Irregularities, mal	e reproductive effects



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Species Application Route	: Dog
Application Route	: Oral
Exposure time	: 90 d
Target Organs	: Gastrointestinal tract
Exposure time Target Organs Symptoms	: Diarrhoea, Vomiting

:

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### **Components:**

#### Netobimin:

Ingestion

Symptoms: The most common side effects are:, Dizziness, Headache, Abdominal pain, Gastrointestinal discomfort, Vomiting

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity	
No data available	
Persistence and degradability	у
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
No data available	
13. DISPOSAL CONSIDERATIONS	3
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 han-

dling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

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#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to IMO instruments

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

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

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

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

Revision Date	:	28.09.2024
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 : dd.mm.yyyy

#### 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.

IN / EN