



Version 4.0	Revision Date: 06.07.2024		S Number: 40491-00012	Date of last issue: 23.04.2024 Date of first issue: 04.05.2020
	N 1: IDENTIFICATION duct name	:	Netobimin (5%) I	Formulation
Man	ufacturer or supplier's o	deta	ils	
	npany	:		a Pty Limited (trading as MSD Animal Health)
Add	Address		91-105 Harpin Street Bendigo 3550, Victoria Austrailia	
Tele	phone	:	1 800 033 461	
Eme	Emergency telephone number		Poisons Information Centre: Phone 13 11 26	
E-m	ail address	:	EHSDATASTEW	/ARD@msd.com
Rec	ommended use of the c	hem	ical and restriction	ons on use
	ommended use trictions on use	:	Veterinary produ Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Inhalation)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)		Category 2 (Testis, Liver, Skin, Gastrointestinal tract)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H332 Harmful if inhaled. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Testis, Liver, Skin, Gastrointestinal tract) through prolonged or repeated exposure if swallowed.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use.





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P202 Do not handle until all safety precautions have been read and understood.P260 Do not breathe mist or vapours.P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration (% w/w)
Netobimin	88255-01-0	>= 3 -< 10

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 soap and 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	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention.

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	nportant symptoms ects, both acute and d	:	Harmful if inhale Suspected of da unborn child. May cause dam	amaging fertility. Suspected of damaging the hage to organs through prolonged or repeated		
	Protection of first-aiders		exposure if swallowed. 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).			
	o physician	:		atically and supportively.		
	e extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical			
media Specifio	able extinguishing c hazards during fire-	:	None known.	nbustion products may be a hazard to health.		
fighting Hazard ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides Sulphur compo			
Specifie ods	c extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. haged containers from fire area if it is safe to c		
Special for firef	l protective equipment ighters	:		ire, wear self-contained breathing apparatus. rotective equipment.		
ECTION 6	. ACCIDENTAL RELE	ASI	E MEASURES			
tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe han	rotective equipment. Idling advice (see section 7) and personal pro Int recommendations (see section 8).		
Enviror	nmental 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 c ose of contaminated wash water. s should be advised if significant spillages ained.		
	ls and materials for ment and cleaning up	:	For large spills, ment to keep m	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate containe		
			3 / 14			





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		bent. Local or nationa posal of this ma employed in the	ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national 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 breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. 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.
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, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	



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		exposure)	concentration	
Netobimin	88255-01-0	TWA	70 ug/m3 (OEB 3)	Internal
	Further informa	ation: Skin		
		Wipe limit	700 ug/100cm2	Internal
Engineering measures :	technologies t less quick con All engineerin design and op protect produc Containment t are required to	o control airborn nections). g controls should erated in accord cts, workers, and echnologies suit control at sourd to uncontrolled ces).	controls and manufac le concentrations (e.g d be implemented by lance with GMP princ the environment. cable for controlling co ce and to prevent mig areas (e.g., open-fac	g., drip- facility siples to ompounds gration of
Personal protective equipmen	t			
Respiratory protection : Filter type :	sure assessm ommended gu	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type		
Hand protection	ŗ			
Material :	Chemical-resi	stant 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 :	Additional boc task being per posable suits)	formed (e.g., sle to avoid expose te degowning te	at. uld be used based up eevelets, apron, gaun ed skin surfaces. chniques to remove p	tlets, dis-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	4.5 - 6.5



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٢	Melting	point/freezing point	:	No data available	
	Initial bo range	iling point and boiling	:	No data available	
F	Flash po	pint	:	No data available)
E	Evapora	ation rate	:	No data available)
F	Flamma	bility (solid, gas)	:	Not applicable	
F	Flamma	bility (liquids)	:	No data available)
		xplosion limit / Upper pility limit	:	No data available)
		xplosion limit / Lower bility limit	:	No data available	•
١	Vapour	pressure	:	No data available)
F	Relative	vapour density	:	No data available)
F	Relative	density	:	No data available)
[Density		:	1,054 g/cm ³	
S	Solubilit Wate	y(ies) er solubility	:	No data available	•
		coefficient: n-	:	Not applicable	
	octanol/ Auto-ign	nition temperature	:	No data available)
[Decomp	oosition temperature	:	No data available)
١	Viscosit <u>y</u> Visco	y osity, kinematic	:	No data available	•
E	Explosiv	ve properties	:	Not explosive	
(Oxidizin	g properties	:	The substance of	r mixture is not classified as oxidizing.
ſ	Molecula	ar weight	:	No data available	9
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY





rsion	Revision Date: 06.07.2024	SDS Number: 5840491-00012	Date of last issue: 23.04.2024 Date of first issue: 04.05.2020
Possi tions Cond Incon Haza produ	nical stability bility of hazardous reac- itions to avoid npatible materials rdous decomposition licts	 Stable under Can react with None known. Oxidizing age No hazardous 	as a reactivity hazard. normal conditions. n strong oxidizing agents. nts a decomposition products are known.
CTION	11. TOXICOLOGICAL I	NFORMATION	
Expo	sure routes	: Inhalation Skin contact Ingestion Eye contact	
Harm	e toxicity ful if inhaled.		
Prod Acute	uct: inhalation toxicity	: Acute toxicity of Exposure time Test atmosphe Method: Calcu	ere: dust/mist
Com	ponents:		
	bimin: e oral toxicity	: LD50 (Rat): >	2,000 mg/kg
Acute	inhalation toxicity	: LCLo (Rat): 0. Test atmosphe	
Skin	corrosion/irritation lassified based on availa	ble information.	
Com	ponents:		
Neto Spec Metho Resu	bc	: Rabbit : Draize Test : Mild skin irritat	ion
	ous eye damage/eye irri lassified based on availa		
<u>Com</u>	ponents:		
Neto	bimin:		
Spec Resu		: Rabbit : Mild eye irritati	on



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Chronic toxicity

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:

Species Application Route Exposure time Remarks	: Rat
Application Route	: Oral
Exposure time	: 1 Years
Remarks	: No significant adverse effects were reported

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

Netobimin:

Effects on fertility

: Test Type: Two-generation study





rsion)	Revision Date: 06.07.2024	SDS Number: 5840491-00012	Date of last issue: 23.04.2024 Date of first issue: 04.05.2020
Effects on foetal develop- ment	Species: Ra Application		
	Species: Ra Application Developme		
		Application	Development Route: Oral ntal Toxicity: NOAEL: 22 mg/kg body weight
		Application	ntal Toxicity: LOAEL: 60 mg/kg body weight ans: Testes
		Species: Ra Application	
		Species: Ra Application Developme	
		Species: Ra Application Developme	
Repro sessm	eductive toxicity - As-	: Suspected unborn child	of damaging fertility. Suspected of damaging the

STOT - single exposure

Not classified based on available information.



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STOT - repeated exposure

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

Components:

Netobimin:

Exposure routes	: Oral
Target Organs	: Testis, Liver, Skin, Gastrointestinal tract
Exposure routes Target Organs 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
Species LOAEL Application Route Exposure time Target Organs Symptoms	 Rat 38 mg/kg Oral 90 d Skin, Testis Irregularities, male reproductive effects
Species Application Route Exposure time Target Organs Symptoms	 Dog Oral 90 d Gastrointestinal tract Diarrhoea, Vomiting



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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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	
		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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

:	Not applicable
:	Not applicable
:	no
:	Not applicable



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Class Subs Pack Labe Pack aircra Pack	idiary risk ing group Is ing instruction (cargo aft) ing instruction (passen-		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
IMDG UN n Prope Class Subs Pack Labe EmS Marin	idiary risk ing group Is Code ne pollutant	: : : : : : : : : : : : : : : : : : : :	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	OI 73/78 and the IBC Code

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

Not applicable for product as supplied.

National Regulations

:	Not applicable
:	Not applicable
	:

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons	:	Schedule 5 (Please use the original publication to check for
Standard) Instrument		specific uses, specific conditions or threshold limits that might
		apply for this chemical)

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

The components of this product are reported in the following inventories: AICS : not determined



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DSL		: not determined	
IECSC	;	: not determined	

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date	:	06.07.2024
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
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.

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 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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