according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
4.0	2024/09/28	5840426-00012	Date of first issue: 2020/05/04

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Netobimin Formulation
Manufacturer or supplier's de	etai	ils
Company	:	MSD
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331
Telephone	:	+1-908-740-4000
Emergency telephone number	:	86-571-87268110
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	::	suspension yellow No data available
		s eye irritation. Harmful if inhaled. Suspected of damaging fertili- born child. Causes damage to organs through prolonged or
GHS Classification		
Acute toxicity (Inhalation)	:	Category 4
Skin corrosion/irritation	:	Category 3
Serious eye damage/eye irri- tation	:	Category 2B
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1
GHS label elements		

GHS label elements

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

ersion 0	Revision Date: 2024/09/28	SDS Number: 5840426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04
Haza	rd pictograms		!
Signa	al word	: Danger	\mathbf{V}
Haza	rd statements	H320 Causes H332 Harmful H361fd Suspe ing the unborn	if inhaled. cted of damaging fertility. Suspected of dama
FIEC	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P271 Use only	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. otective gloves/ protective clothing/ eye protective
		and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P313 I attention. P332 + P313 I tion.	 P312 IF INHALED: Remove person to fresh fortable for breathing. Call a POISON CENTE bel unwell. P338 IF IN EYES: Rinse cautiously with wat butes. Remove contact lenses, if present and ontinue rinsing. F exposed or concerned: Get medical advice/ at f eye irritation persists: Get medical advice/ at f
		Storage:	
		P405 Store loc	cked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
4.0	2024/09/28	5840426-00012	Date of first issue: 2020/05/04

Health hazards

Harmful if inhaled. Causes mild skin irritation. Causes eye irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

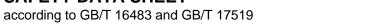
Substance / Mixture : Mixture

Components

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

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. 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.
Most important symptoms and effects, both acute and delayed	:	Causes mild skin irritation. Causes eye irritation. Harmful if inhaled. Suspected of damaging fertility. Suspected of damaging the unborn child.
Protection of first-aiders	:	Causes damage to organs through prolonged or repeated exposure. 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).





Netobimin Formulation

Version 4.0	Revision Date: 2024/09/28		DS Number: 40426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04	
Notes	s to physician		Treat symptomati	cally and supportively.	
	GHTING MEASURES	•			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
Unsu media	itable extinguishing a	:	None known.		
Speci fightir	ific hazards during fire- ng	:	Exposure to comb	pustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur compoun		
Spec ods	ific extinguishing meth-	:	Use extinguishing measures that are appropriate to local ci cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.		
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.	
6. ACCIDI	ENTAL RELEASE MEA	SUF	RES		
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal pro- t recommendations (see section 8).	
Envir	onmental precautions	:	Avoid release to the environment.		

Environmental precautions		Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain-

ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and dis-

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version 4.0	Revision Date: 2024/09/28	SDS Number: 5840426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04
		employed in the mine which regu Sections 13 and	terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding national requirements.
7. HANDL	ING AND STORAGE		
Hand	ling		
Techr	nical measures		g measures under EXPOSURE RSONAL PROTECTION section.
Local/	Total ventilation	: If sufficient vent ventilation.	ilation is unavailable, use with local exhaust
Advice	e on safe handling	: Do not get on sl Do not breathe Do not swallow. Do not get in ey Wash skin thoro Handle in accor practice, based sessment Keep container Do not eat, drinl	mist or vapours. es. oughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as-
Avoida	ance of contact	: Oxidizing agent	S
Stora	ge		
	tions for safe storage ials to avoid	Store locked up Keep tightly clos Keep in a cool, Store in accorda	
water		Strong oxidizing	
Packa	aging material	: Unsuitable mate	erial: None known.

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

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version 4.0	Revision Date: 2024/09/28	SDS Number: 5840426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04
		less quick c All engineer design and protect prod Containmen are required the compou tainment de	s to control airborne concentrations (e.g., drip- onnections). ring controls should be implemented by facility operated in accordance with GMP principles to lucts, workers, and the environment. In technologies suitable for controlling compounds d to control at source and to prevent migration of nd to uncontrolled areas (e.g., open-face con- vices). ben handling.
Perse	onal protective equip	ment	
Resp Fil Eye/fi	iratory protection Iter type ace protection and body protection	 If adequate sure assess ommended Particulates Wear safety If the work e mists or aer Wear a face potential for aerosols. Work uniford Additional b 	local exhaust ventilation is not available or expo- sment demonstrates exposures outside the rec- guidelines, use respiratory protection. type glasses with side shields or goggles. environment or activity involves dusty conditions, osols, wear the appropriate goggles. eshield or other full face protection if there is a direct contact to the face with dusts, mists, or m or laboratory coat. ody garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, dis-
Hand	protection		ts) to avoid exposed skin surfaces. riate degowning techniques to remove potentially ed clothing.
	aterial	: Chemical-re	esistant gloves
	emarks ene measures	: If exposure eye flushing ing place. When using Wash conta The effectiv engineering appropriate industrial hy	buble gloving. to chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, rgiene monitoring, medical surveillance and the nistrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: suspension
. .	

- Colour : yellow
- Odour : No data available

according to GB/T 16483 and GB/T 17519



		sion Date: SDS Nu /09/28 5840426		last issue: 2024/07/06 first issue: 2020/05/04
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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/cm³
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
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available

according to GB/T 16483 and GB/T 17519



Version 4.0	Revision Date: 2024/09/28		0S Number: 40426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04
	ticle characteristics ticle size	:	Not applicable	
10. STA	BILITY AND REACTIVITY	(
Che Pos tion Cor Inco Haz	activity emical stability ssibility of hazardous reac- is nditions to avoid ompatible materials zardous decomposition ducts		Stable under nor Can react with st None known. Oxidizing agents	rong oxidizing agents.
11. TOX		ΓΙΟΙ	N	
Exp	posure routes	:	Inhalation Skin contact Ingestion Eye contact	
	u te toxicity mful if inhaled.			
Pro	oduct:			
Acı	ute oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method
Acu	ute inhalation toxicity	:	Acute toxicity estimate: 1.27 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
Co	mponents:			
Net	obimin:			
Αсι	ute oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
Аси	ute inhalation toxicity	:	LCLo (Rat): 0.19 Test atmosphere:	
-	n corrosion/irritation uses mild skin irritation.			
Co	mponents:			
	obimin:			
	ecies thod sult	:	Rabbit Draize Test Mild skin irritation	

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
4.0	2024/09/28	5840426-00012	Date of first issue: 2020/05/04

Serious eye damage/eye irritation

Causes eye irritation.

Components:

Netobimin:

Species Result Method	: Rabbit
Result	: 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.

Components:

Netobimin:

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

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
4.0	2024/09/28	5840426-00012	Date of first issue: 2020/05/04

Reproductive toxicity

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

Components:

Netobimin:	
Effects on fertility	: Test Type: Two-generation study Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 15 mg/kg body weight Result: Maternal effects
Effects on foetal develop- ment	: Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 91 mg/kg body weight
	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 228 mg/kg body weight Result: Teratogenic effects, Maternal toxicity observed., Feto- toxicity
	Test Type: Development Application Route: Oral Developmental Toxicity: NOAEL: 22 mg/kg body weight
	Test Type: Development Application Route: Oral Developmental Toxicity: LOAEL: 60 mg/kg body weight Target Organs: Testes Result: Fetotoxicity
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 15 mg/kg body weight
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 25 mg/kg body weight Result: Fetotoxicity, Maternal toxicity observed., Teratogenic effects
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 5 mg/kg body weight

according to GB/T 16483 and GB/T 17519



Version 4.0	Revision Date: 2024/09/28	SDS Number:Date of last issue: 2024/05840426-00012Date of first issue: 2020/0	
		Result: Teratogenicity and developmental to	oxicity
Repr sessr	oductive toxicity - As- nent	: Suspected of damaging fertility. Suspected unborn child.	of damaging the
	Γ - single exposure lassified based on avail	ble information.	
STO	F - repeated exposure		
Caus	es damage to organs th	ough prolonged or repeated exposure.	
Com	ponents:		
	bimin:		
Targe	sure routes et Organs ssment	 Oral Testis, Liver, Skin, Gastrointestinal tract Shown to produce significant health effects centrations of 10 mg/kg bw or less. 	in animals at con-
Repe	eated dose toxicity		
Com	ponents:		
Neto	bimin:		
Spec NOA		: Rat	
-	cation Route	: 60 mg/kg : Oral	
Expo	sure time	: <u>1</u> yr	
	et Organs otoms	: Testis : male reproductive effects	
Spec	ies	: Rat	
LOAE	=∟ cation Route	: 15 mg/kg : Oral	
	sure time	: 1 yr	
Targe	et Organs	: Liver	
Symp	otoms	: Irregularities	
Spec		: Rat	
NOA		: 7 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 1 yr : Skin	
	otoms	: Irregularities	
Rema	arks	: Based on data from similar materials	
Spec	ies	: Rat	
LÕAE	ΞL	: 38 mg/kg	
	cation Route	: Oral	
Expo	sure time et Organs	: 90 d	
Inarge	st Olyans	: Skin, Testis	

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
4.0	2024/09/28	5840426-00012	Date of first issue: 2020/05/04

Symptoms

: Irregularities, male reproductive effects

Species	: Dog
Species 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

~	
	Other adverse effects No data available
	Mobility in soil No data available
	Bioaccumulative potential No data available
	Persistence and degradability No data available
	Ecotoxicity No data available

13. DISPOSAL CONSIDERATIONS

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

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version 4.0	Revision Date: 2024/09/28	DS Number: 340426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04
Propo Class Subs Pack Labe Envir IATA UN/II Propo Class Subs Pack Labe Pack aircra Pack	idiary risk ing group Is onmentally hazardous -DGR D No. er shipping name s idiary risk ing group Is ing instruction (cargo	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	
UN n Propo Class Subs Pack Labe EmS	idiary risk ing group	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no	

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases **Regulations on Safety Management of Hazardous Chemicals**



according to GB/T 16483 and GB/T 17519

Versio 4.0	n Revision Date: 2024/09/28	SDS Number: 5840426-00012	Date of last issue: 2024/07/06 Date of first issue: 2020/05/04				
С	Catalogue of Hazardous Cher	nicals	: This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.				
	dentification of Major Hazard 8218)	Installations for Hazar	rdous Chemicals (GB : Not listed				
	lazardous Chemicals for Prio AWS	rity Management unde	er : Not listed				
R	egulations on Labour Prot	ection in Workplaces	s where Toxic Substances are Used				
С	Catalogue of Highly Toxic Che	emicals	: Not listed				
	II Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals						
	china Severely Restricted Tox nd Export	kic Chemicals for Impo	ort : Not listed				
	Regulation on the Administ	ration of Precursor C	Chemicals				
	Catalogue and Classification of						
Y	angtze River Protection La	w					
Т	his product does not contain	any dangerous chemi	icals prohibited for inland river transport.				
	he components of this pro ICS	duct are reported in t : not determined	the following inventories:				
D	SL	: not determined					
IE	ECSC	: not determined					
16. O	THER INFORMATION						
R	evision Date	: 2024/09/28					
F	urther information						
C	ources of key data used to ompile the Safety Data heet		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- Iropa.eu/				
	ems where changes have be ocument by two vertical lines	•	ous version are highlighted in the body of this				
D	Pate format	: yyyy/mm/dd					

according to GB/T 16483 and GB/T 17519



Netobimin Formulation

Version Revision Date: 4.0 2024/09/28

SDS Number: 5840426-00012

Date of last issue: 2024/07/06 Date of first issue: 2020/05/04

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 - Verv Persistent and Verv Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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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