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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Netobimin Formulation
1.2	Relevant identified uses of the	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the s	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4	H332: Harmful if inhaled.
,	H319: Causes serious eye irritation.
Eye irritation, Category 2	
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected
	of damaging the unborn child.
Specific target organ toxicity - repeated	H372: Causes damage to organs through pro-
exposure, Category 1	longed or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)





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Hazard pictograms		:		!
Signa	l word	:	Danger	
Hazaı	rd statements	:	H332 Ha H361fd Su dai H372 Ca	uses serious eye irritation. rmful if inhaled. spected of damaging fertility. Suspected of maging the unborn child. uses damage to organs through prolonged or peated exposure.
Preca	utionary statements	:	Prevention:	
			P264 Wa P270 Do uct P280 We	tain special instructions before use. ash skin thoroughly after handling. not eat, drink or smoke when using this prod- ar protective gloves/ protective clothing/ eye otection/ face protection.
			Response:	
				IF exposed or concerned: Get medical advice/ ention.
				If eye irritation persists: Get medical advice/ ention.

Hazardous components which must be listed on the label:

Netobimin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Netobimin	88255-01-0	Acute Tox. 2; H330 Eye Irrit. 2; H319 Repr. 2; H361fd STOT RE 1; H372 (Testis, Liver, Skin, Gastrointestinal tract)	>= 10 - < 20

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures				
G	eneral 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.	
Ρ	rotection of first-aiders	:	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).	
lf	inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ir	n 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.	
Ir	n 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.	
lf	swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.	
4.2 Mo	ost important symptoms and	d e	ffects, both acute and delayed	
R	isks	:	Causes serious eye irritation. Harmful if inhaled. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.	
	dication of any immediate m reatment	ned	lical attention and special treatment needed	
I	reatment	•	Treat symptomatically and supportively.	

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SECTION 5: Firefighting measures

5.1 Extinguishing media

	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
5.2	Special hazards arising from	the	e substance or mixture
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulphur compounds
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	Specific extinguishing meth- ods	:	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 so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material.
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		ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	provide dyking or other appropriate contain- aterial from spreading. If dyked material can be recovered material in appropriate container. and materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding mational requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	5				
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 assessment 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 contami- nated 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. 				
7.2 Conditions for safe storage, including any incompatibilities					
Dear the second for a strand second	Kana is a second data data tai sana Otana bada data Kana				

Requirements for storage areas and containers	:	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.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures

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		Organic peroxide Explosives Gases	S
•	c end use(s) c use(s)	: No data available	3

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No. Value type (Form		Control parameters	Basis
		of exposure)		
Netobimin	88255-01-0	TWA	70 ug/m3 (OEB 3)	Internal
	Further inform	nation: Skin		
		Wipe limit	700 ug/100cm2	Internal

8.2 Exposure controls

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 equipment

Eye/face protection Hand 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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-

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Fi	lter type		delines, use respiratory protection. uld conform to BS EN 143 ve (P)
SECTION	N 9: Physical and o	chemical properties	

9.1 Information on basic physical and chemical properties

9.1	Information on basic physical	an	d chemical properties
	Appearance	:	suspension
	Colour	÷	yellow
	Odour Odour Threshold	:	No data available 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
	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 Partition coefficient: n-	:	No data available Not applicable
	octanol/water Auto-ignition temperature	:	No data available
	Decomposition temperature	:	No data available
	Viscosity		
	Viscosity, kinematic	:	No data available
	Evalopivo proportico		Net evologive
	Explosive properties	•	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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agents.

mg/l

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9.2 Other	information			

Flammability (liquids)	:	No data available
Molecular weight	:	No data available
Particle size	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Can react with strong oxidizing
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10.4 Conditions to avoid

Conditions to avoid :	None known.
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10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if inhaled.		
Product:		
Acute inhalation toxicity	:	Acute toxicity estimate: 1.27 Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

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	oonents:			
Netol	bimin:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
Acute	inhalation toxicity	:	LCLo (Rat): 0.19 Test atmosphere	

Skin corrosion/irritation

Not classified based on available information.

Components:

Netobimin:

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Netobimin:

Species	:	Rabbit
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

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Geno	Genotoxicity in vivo :		Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Result: positive		
	cinogenicity classified based on ava	lable inforn	nation.		
Com	ponents:				
Spec Appl	ication Route osure time	: Rat : Oral : 1 Ye : No s		dverse effects were reported	
-	roductive toxicity bected of damaging fert	lity. Suspe	ted of dan	naging the unborn child.	
Com	ponents:				
	obimin: cts on fertility	Spec Appl Gen	cies: Rat ication Rou	y F1: NOAEL: 15 mg/kg body weight	
Effec	cts on foetal develop- t	Spec Appl Deve Spec Appl Deve Resu toxic Test Appl Deve Test	Type: Dev cies: Rat ication Rou elopmental ult: Teratog ity Type: Dev ication Rou	ute: Oral Toxicity: NOAEL: 91 mg/kg body weight relopment ute: Oral Toxicity: LOAEL: 228 mg/kg body weight renic effects, Maternal toxicity observed., Feto- relopment ute: Oral Toxicity: NOAEL: 22 mg/kg body weight relopment	
		Deve Targ Rest Test		Toxicity: LOAEL: 60 mg/kg body weight Testes icity elopment	

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STOT - sing Not classifie STOT - repe Causes dam <u>Component</u> Netobimin:			Test Type: Devel Species: Rabbit Application Route Developmental T Result: Fetotoxic effects Test Type: Devel Species: Rabbit	oxicity: NOAEL: 15 mg/kg body weight lopment e: Oral oxicity: LOAEL: 25 mg/kg body weight ity, Maternal toxicity observed., Teratogenic
STOT - sing Not classifie STOT - repe Causes dam <u>Component</u> Netobimin:			Species: Rabbit Application Route Developmental T Result: Fetotoxic effects Test Type: Devel Species: Rabbit	e: Oral oxicity: LOAEL: 25 mg/kg body weight ity, Maternal toxicity observed., Teratogenic
STOT - sing Not classifie STOT - repe Causes dam <u>Component</u> Netobimin:			Species: Rabbit	lopment
STOT - sing Not classifie STOT - repe Causes dam <u>Component</u> Netobimin:				e: Oral oxicity: NOAEL: 5 mg/kg body weight nicity and developmental toxicity
Not classifie STOT - repe Causes dam <u>Component</u> Netobimin:	e toxicity - As-	:	Suspected of dar unborn child.	maging fertility. Suspected of damaging the
Causes dam <u>Component</u> Netobimin:	gle exposure ed based on avail	able	information.	
<u>Component</u> Netobimin:	eated exposure			
Netobimin:		nroug	h prolonged or rep	beated exposure.
	<u>15.</u>			
Exposure ro Target Orga Assessment	ins	:	Shown to produc	n, Gastrointestinal tract e significant health effects in animals at con mg/kg bw or less.
Repeated d				

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	:	Rat

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NOAEL Application Route Exposure time Target Organs Symptoms Remarks			 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, m	ale reproductive effects		
Expo Targe	ies cation Route sure time et Organs otoms	:	Dog Oral 90 d Gastrointestinal Diarrhoea, Vorr			

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

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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12.6 Other adverse effects

Product:

Endocrine disrupting poten- : tial	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
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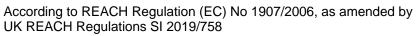
SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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

14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.2	UN proper shipping name		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.3	Transport hazard class(es)		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good





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g group	 Not regulated as a dangerous good Not regulated as a dangerous good Not regulated as a dangerous good
	: Not regulated as a dangerous good
	· Not regulated as a dangerous good
	. Not regulated as a daligerous good
	: Not regulated as a dangerous good
argo)	: Not regulated as a dangerous good
assenger)	: Not regulated as a dangerous good
mental hazards ulated as a dangerou	good
precautions for us	r
ort in bulk accordin	to Annex II of Marpol and the IBC Code
S	: Not applicable for product as supplied.
	rmation nental regulations/legislation specific for the substance or m
	assenger) mental hazards ulated as a dangerous precautions for use licable ort in bulk according s 5: Regulatory info

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Órganic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (CC Not applicable	אוער	ND)

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Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	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 H-Statements		
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H361fd	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.

Full text of other abbreviations

	Acute toxicity Eye irritation
Repr. :	Reproductive toxicity Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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;

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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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the mixture:		
H332	Calculation method	
H319	Calculation method	
H361fd	Calculation method	
H372	Calculation method	
	H332 H319 H361fd	

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