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

1.1	Product identifier Trade name	:	Vericiguat Formulation
1.2	Relevant identified uses of th Use of the Sub-		ubstance or mixture and uses advised against Pharmaceutical
	stance/Mixture	_	
	Recommended restrictions on use		Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD 120 Moorgate EC2M 6UR London, United Kingdom
	Telephone	:	+44 (0) 2081548000
	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)

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged 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)

Hazard pictograms



Signal word

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Hazar	d statements	:	H373	May cause damage to organs through prolonged or repeated exposure.
Preca	utionary statements	:	Prevention P260	: Do not breathe dust.
			Response: P314	Get medical advice/ attention if you feel unwell.

Hazardous components which must be listed on the label:

Vericiguat

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.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form combustible dust concentrations in air during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)	
Vericiguat	1350653-20-1	STOT RE 1; H372 (Cardio-vascular system)	>= 1 - < 10	
Substances with a workplace exposure limit :				
Cellulose	9004-34-6 232-674-9		>= 30 - < 50	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
Protection 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).

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lf inh	aled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.		
In ca	se of skin contact	: Wash with water and soap. Get medical attention if symptoms occur.		
In cas	se of eye contact	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.		
lf swa	allowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
4.2 Most i	important symptoms	d effects, both acute and delayed		
Risks	5	: May cause damage to organs through prolonged or reexposure.	epeated	
		Contact with dust can cause mechanical irritation or drying on the skin. Dust contact with the eyes can lead to mechanical irritation.		

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically and supportively.
-----------	---	---

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	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.		
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides		
5.3 Advice for firefighters				
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		

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Speci ods	fic extinguishing meth-	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do

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. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
6.3 Methods and material for co	ntainment and cleaning up
Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac-

es, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national 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

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
-		Do not swallow.

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Hy	/giene measures	Wash skin th Handle in acc practice, bas sessment Minimize dus Keep contain Keep away fr Take precaut Do not eat, d Take care to environment. If exposure to flushing syste place. When nated clothin The effective engineering of appropriate of industrial hyg	ged or repeated contact with skin. oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- t generation and accumulation. er closed when not in use. om heat and sources of ignition. ionary measures against static discharges. rink or smoke when using this product. prevent spills, waste and minimize release to the
7.2 Co	nditions for safe storage,	including any inc	compatibilities
	equirements for storage eas and containers		erly labelled containers. Store in accordance with national regulations.
Ad	dvice on common storage	Strong oxidiz	substances and mixtures

Explosives Gases

7.3 Specific end use(s)

Specific use(s)	: No data available
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

dust of any kind	V	10 mg/m3 Value type (Form of exposure): TWA (Inhalable) Basis: GB EH40				
	V	mg/m3 /alue type (Form of e) asis: GB EH40	xposure): TWA (Respirable	e fraction)		
Components C	AS-No.	Value type (Form	Control parameters	Basis		



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		of exposure)		
Cellulose	9004-34-6	TWA (inhalable	10 mg/m3	GB EH40
		dust)	_	
		TWA (Respirable	4 mg/m3	GB EH40
		dust)	_	
		STEL (inhalable dust)	20 mg/m3	GB EH40
Vericiguat	1350653- 20-1	TWA	4 µg/m3 (OEB 4)	Internal
		Wipe limit	40 µg/100 cm ²	Internal

8.2 Exposure controls

Engineering measures

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Essentially no open handling permitted.

Use closed processing systems or containment technologies.

Personal protective equipment

Eye/face 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 Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143 Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	tablet
Colour	:	No data available

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	Odour Odour ⊺	Fhreshold	:	No data available No data available	
	pН		:	No data available	
	Melting	point/freezing point	:	No data available	
		piling point and boiling	:	No data available	
	range Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form combus cessing, handling	stible dust concentrations in air during pro- or other means.
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	
	Density		:	No data available	
		er solubility n coefficient: n-	:	No data available Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	y osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
9.2 (Other in	formation			
	Flamma	ability (liquids)	:	Not applicable	
	Molecul	ar weight	:	No data available	
	Particle	size	:	No data available	

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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	 May form combustible dust concentrations in air during pro- cessing, handling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.

Conditions to avoid	:	Heat, flames and spar
		Avoid dust formation.

10.5 Incompatible materials

Materials to avoid	: C	xidizing 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 : Inhalation exposure Skin contact Ingestion Eye contact Acute toxicity Not classified based on available information. **Components:** Vericiguat: Acute oral toxicity : LD50 (Rat): > 60 mg/kg Remarks: No mortality observed at this dose. LD50 (Dog): > 30 mg/kg Remarks: No mortality observed at this dose. Cellulose: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Acute inhalation toxicity LC50 (Rat): > 5.8 mg/l : Exposure time: 4 h Test atmosphere: dust/mist

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	Acute o	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg	
Skin corrosion/irritation Not classified based on available information.						
	Serious eye damage/eye irritation Not classified based on available information.					
	Respir	atory or skin sensit	isatio	n		
	Not cla	ensitisation ssified based on avai atory sensitisation	ilable	information.		
	Not cla	ssified based on avai	ilable	information.		
		cell mutagenicity ssified based on avai	ilable	information.		
Components:						
	Vericiç Genoto	juat: exicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e	
				Test Type: Mou Result: negativ		
	Genoto	oxicity in vivo	:	Test Type: Mich Species: Mouse Application Rou Result: negativ	e ute: Intraperitoneal	
	Cellulo	se:				
		oxicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e	
				Test Type: In v Result: negativ	itro mammalian cell gene mutation test e	
	Genoto	oxicity in vivo	:	Test Type: Mar cytogenetic ass Species: Mouse Application Rou Result: negativ	e ute: Ingestion	

Carcinogenicity

Not classified based on available information.

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	<u>Comp</u>	onents:			
		ation Route ure time	::	Rat Ingestion 72 weeks negative	
	-	ductive toxicity assified based on availa	able	information.	
	<u>Comp</u>	onents:			
	Vericiguat: Effects on fertility		:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 50 mg/kg body weight
	Effects ment	s on foetal develop-	:	Result: Some evid based on animal e	: Oral pxicity: LOAEL: 50 mg/kg body weight lence of adverse effects on development,
				Result: Postimpla	oxicity: LOAEL: 2.5 mg/kg body weight
	Cellul	ose:			
	Effects	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects ment	s on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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<u>C</u>	omponents:					
Та	ericiguat: arget Organs ssessment	 Cardio-vascular system Causes damage to organs through prolonged or repeated exposure. 				
R	epeated dose toxicity					
<u>C</u>	omponents:					
S N A E:	ericiguat: pecies OAEL pplication Route xposure time emarks	: Mouse : 50 mg/kg : Oral : 13 Weeks : No significant ad	lverse effects were reported			
LQ Al Ex	pecies OAEL pplication Route xposure time arget Organs	: Rat : 15 mg/kg : Oral : 4 Weeks : Liver, Prostate, A	Adrenal gland			
N Aj Ež	pecies OAEL pplication Route xposure time arget Organs	: Rat : 3 mg/kg : Oral : 13 Weeks : small intestine				
N Aj Ez	pecies OAEL pplication Route xposure time arget Organs	: Rat : 30 mg/kg : Oral : 26 Weeks : Kidney				
N L(A E: Ta	pecies OAEL OAEL pplication Route xposure time arget Organs ymptoms	: Dog : 2.5 mg/kg : 7.5 mg/kg : Oral : 4 Weeks : Kidney, Gastroin : Vomiting	itestinal tract			
	pecies OAEL OAEL pplication Route xposure time ymptoms	: Dog : 2.5 mg/kg : 5 mg/kg : Oral : 13 Weeks : No adverse effec	cts			
	pecies OAEL	: Dog : 5 mg/kg				

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Applica Exposu Sympto		: 3	Dral 39 Weeks No adverse effec	ts
Cellulo	Cellulose:			
Species NOAEL Applica Exposu	- tion Route	: > :	Rat >= 9,000 mg/kg ngestion 90 Days	
-	t ion toxicity ssified based on ava	ilable in	formation.	
Experie	ence with human e	xposur	e	
<u>Compo</u>	onents:			
Vericig	uat:			
Ingestic	n	5	Symptoms: hypo	Cardio-vascular system tension, Headache, Dizziness, Nausea, Diar- anemia, acid reflux, constipation
Compo Cellulo Toxicity 12.2 Persist	se:	E	Exposure time: 4	tipes (Japanese medaka)): > 100 mg/l 8 h on data from similar materials
<u>Compo</u>	onents:			
Cellulo Biodegr	se: radability	: F	Result: Readily b	iodegradable.
12.3 Bioacc	umulative potentia	ıl		
Compo	onents:			
Vericig Partitior octanol	n coefficient: n-	: 1	og Pow: 2.99	
12.4 Mobilit No data	y in soil a available			
			12/16	

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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.

12.6 Other adverse effects

Product:

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

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		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good Not regulated as a dangerous good
	:	5 5 5
ADR	::	Not regulated as a dangerous good
ADR RID	-	Not regulated as a dangerous good Not regulated as a dangerous good

14.3 Transport hazard class(es)

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	ADN		: N	ot regulated as a	a dangerous good
	ADR		: N	ot regulated as a	a dangerous good
	RID		: N	ot regulated as a	a dangerous good
	IMDG		: N	ot regulated as a	a dangerous good
	ΙΑΤΑ		: N	ot regulated as a	a dangerous good
14.4 Packing group		ng group			
	ADN		: N	ot regulated as a	a dangerous good
	ADR		: N	ot regulated as a	a dangerous good
	RID		: N	ot regulated as a	a dangerous good
	IMDG		: N	ot regulated as a	a dangerous good
	IATA (Cargo)	: N	ot regulated as a	a dangerous good
	ΙΑΤΑ (Passenger)	: N	ot regulated as a	a dangerous good
		onmental hazards gulated as a dangerous	good		

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-	:	Not applicable
ain) Regulation (EC) on substances that deplete the ozone laver	:	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	MA	.H)

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements

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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				
H372	: Causes damage to organs through prolonged or repeated exposure if swallowed.			

Full text of other abbreviations

STOT RE		Specific target organ toxicity - repeated exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

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; 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 - (Quanti-

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method

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tative) 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

Classification of the mixture:	Classification procedure:	
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/	

	elacomea	
STOT RE 2	H373	Calculation

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