

Versio 4.6	n Revision Date: 23.03.2020		S Number: 378-00015	Date of last issue: 13.09.2019 Date of first issue: 21.10.2014
Sectio	n 1: Identification			
Pi	roduct name	:	Simvastatin F	ormulation
М	anufacturer or supplier's	detai	ils	
C	ompany	:	Organon & Co	D.
A	ddress	:		reet, 33nd floor Iew Jersey, U.S.A 07302
Te	elephone	:	551-430-6000)
E	mergency telephone numb	er :	215-631-6999)
E	mail address	:	EHSSTEWAR	RD@organon.com
	ecommended use of the e ecommended use	chem :	ical and restri Pharmaceutic	
Sectio	n 2: Hazard identification)		
-	HS Classification	:	Skin Sens.1	
	pecific target organ toxicity peated exposure	- :	STOT RE2 (L	iver, muscle, optic nerve, Eye)
G	HS label elements			
-	azard pictograms	:		(!)
Si	gnal word	:	Warning	\mathbf{V}
H	azard statements	:	H373 May car	use an allergic skin reaction. use damage to organs (Liver, muscle, optic nerv prolonged or repeated exposure.
P	recautionary statements	:	Prevention:	
			P260 Do not l P272 Contam the workplace	inated work clothing should not be allowed out o
			Response: P302 + P352 P314 Get me P333 + P313 vice/ attention	IF ON SKIN: Wash with plenty of soap and wate dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad-



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Disposal:

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

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. May form explosive dust-air mixture during processing, handling or other means.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Simvastatin	79902-63-9	>= 1 -< 10
Starch	9005-25-8	< 10
Cellulose	9004-34-6	< 10
Citric acid monohydrate	5949-29-1	< 10
Titanium dioxide	13463-67-7	< 1

Section 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. 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.
In case of eye contact	:	Thoroughly clean shoes before reuse. If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Dust contact with the eyes can lead to mechanical irritation.
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).
Notes to physician	:	Treat symptomatically and supportively.
ation F. Fire fighting measure		

Section 5: Fire-fighting measures

Suitable extinguishing media :

Water spray Alcohol-resistant foam Carbon dioxide (CO2)



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media Specifi	Unsuitable extinguishing media Specific hazards during fire- fighting		 Dry chemical None known. Avoid generating dust; fine dust dispersed in air in sufficier concentrations, and in the presence of an ignition source is potential dust explosion hazard. Exposure to combustion products may be a hazard to heal 				
Hazard ucts	lous combustion prod-	:	Carbon oxides				
ods	c extinguishing meth-	:	cumstances and t Use water spray t Remove undamag so. Evacuate area.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
for firef	ighters		Use personal prot				
Section 6: /	Accidental release me	easi	ures				
tive equ	al precautions, protec- uipment and emer- procedures	:	Use personal prot Follow safe handl ment recommend	ing advice and personal protective equip-			
Enviror	nmental precautions	:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.			
	ls and materials for ment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces			

Section 7: Handling and storage

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 Advice on safe handling		Use only with adequate ventilation. Do not get on skin or clothing.



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1.0 20.00.2020		Do not breathe dust. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to th environment.				
	Hygiene measures		:	If exposure to chemical is likely during typical use, provide ex- 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.		
(Conditic	ons for safe storage	:		abelled containers. ce with the particular national regulations.	
I	Materia	ls to avoid	:		the following product types:	

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Simvastatin	79902-63-9	TWA	25 µg/m3 (OEB 3)	Internal
	Further inform	ation: DSEN		
		Wipe limit	250 µg/100 cm ²	Internal
Starch	9005-25-8	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Cellulose	9004-34-6	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Titanium dioxide	13463-67-7	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Engineering measures

: 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.



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Pers	onal protective equip	ment					
Fi	iratory protection	sure assess ommended	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						
Μ	Material		: Chemical-resistant gloves				
Eye p	emarks protection and body protection	If the work e mists or aer Wear a face potential for aerosols. Work uniforr Additional b task being p posable suit	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- s) to avoid exposed skin surfaces. riate degowning techniques to remove potentially				

Section 9: Physical and chemical properties

Appearance	:	powder
Colour	:	No data available
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



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	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	9

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Components:

Simvastatin:

Acute oral toxicity

: LD50 (Rat): 5,000 mg/kg



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		LD50 (Mous	se): 3,800 mg/kg
Starc	h:		
Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	dermal toxicity	: LD50 (Rabb	oit): > 2,000 mg/kg
Cellu	lose:		
Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tii Test atmosp	
Acute	dermal toxicity	: LD50 (Rabb	bit): > 2,000 mg/kg
Citric	acid monohydrate:		
	oral toxicity	: LD50 (Mous	se): 5,400 mg/kg
Acute	dermal toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 402 t: The substance or mixture has no acute derma
	ium dioxide:		//
Acute	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg
Acute	inhalation toxicity		
-	corrosion/irritation assified based on ava	ilable information	
	oonents:		
	astatin:		
Speci Rema		: Rabbit : Moderate sl	kin irritation
Citric	acid monohydrate:		
Speci Resul		: Rabbit : No skin irrita	ation
Titan	ium dioxide:		
Speci Resul		: Rabbit : No skin irrita	ation



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	us eye damage/eye assified based on av			
	onents:	allable	iniornation.	
	astatin:			
Simva			Rabbit	
Rema		:	slight irritation	
Starc	h:			
Speci	es	:	Rabbit	
Resul	t	:	No eye irritation	I
	acid monohydrate:	1		
Speci		:	Rabbit	
Resul	t	:	Irritation to eyes	s, reversing within 21 days
Titani	ium dioxide:			
Speci Resul Resp	es It iratory or skin sens	itisatic	Rabbit No eye irritation on	
Speci Resul Resp Skin May c	es it iratory or skin sens sensitisation cause an allergic skin	itisatic reactio	No eye irritation	
Speci Resul Resp Skin May c Resp	es It iratory or skin sens sensitisation	itisatic reaction	No eye irritation	
Speci Resul Resp Skin May c Resp Not cl	es it iratory or skin sens sensitisation cause an allergic skin iratory sensitisatior	itisatic reaction	No eye irritation	
Speci Resul Resp Skin May c Resp Not cl <u>Comp</u>	es it iratory or skin sens sensitisation cause an allergic skin iratory sensitisation lassified based on av	itisatic reaction	No eye irritation	
Speci Resul Resp Skin s May c Resp Not cl <u>Comp</u> Simva	es iratory or skin sens sensitisation cause an allergic skin iratory sensitisatior lassified based on av <u>conents:</u> astatin: ssment	itisatic reaction	No eye irritation	
Speci Resul Resp Skin s May c Resp Not cl <u>Comp</u> Simva Asses	es iratory or skin sens sensitisation cause an allergic skin iratory sensitisatior lassified based on av <u>conents:</u> astatin: ssment	itisatic reaction	No eye irritation on. information.	
Speci Resul Resp Skin s May c Resp Not cl <u>Comp</u> Simva Asses Resul Starc Test T	es iratory or skin sens sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> astatin: assment It	itisatic reaction	No eye irritation on. information. Probability or ev positive Maximisation To	vidence of skin sensitisation in huma
Speci Resul Resp Skin s May c Resp Not cl Comp Simva Asses Resul Starc Test T Expos	es iratory or skin sens sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> astatin: ssment It h: Type sure routes	itisatic reaction	No eye irritation on on. information. Probability or ev positive Maximisation To Skin contact	vidence of skin sensitisation in huma
Speci Resul Resp Skin s May c Resp Not cl <u>Comp</u> Simva Asses Resul Starc Test T	es It iratory or skin sens sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> astatin: ssment It h: Fype sure routes es	itisatic reaction	No eye irritation on. information. Probability or ev positive Maximisation To	vidence of skin sensitisation in huma
Speci Resul Skin s May c Resp Not cl Comp Simva Asses Resul Starc Test T Expos Speci Resul	es It iratory or skin sens sensitisation cause an allergic skin iratory sensitisation lassified based on av <u>conents:</u> astatin: ssment It h: Fype sure routes es	itisatic reaction	No eye irritation on on. information. Probability or ev positive Maximisation To Skin contact Guinea pig	vidence of skin sensitisation in huma
Speci Resul Resp Skin s May o Resp Not cl Comp Simva Asses Resul Starc Test T Expos Speci Resul Titani Test T	es It iratory or skin sens sensitisation cause an allergic skin iratory sensitisatior lassified based on av <u>conents:</u> astatin: astatin: assment It h: Fype sure routes es It ium dioxide: Fype	itisatic reaction	No eye irritation on on. information. Probability or ev positive Maximisation To Skin contact Guinea pig negative Local lymph no	vidence of skin sensitisation in huma
Speci Resul Resp Skin s May o Resp Not cl Comp Simva Asses Resul Starc Test T Expos Speci Resul Titani Test T	es It iratory or skin sens sensitisation cause an allergic skin iratory sensitisatior lassified based on av <u>conents:</u> astatin: astatin: assment It h: Fype sure routes es It ium dioxide: Fype sure routes	itisatic reaction	No eye irritation on. information. Probability or ev positive Maximisation To Skin contact Guinea pig negative	vidence of skin sensitisation in huma



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Chro	nic toxicity		
Not c	n cell mutagenicity lassified based on ava ponents:	ilable information	
	astatin: otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: neg	Alkaline elution assay gative
		Test Type: Result: neg	Chromosomal aberration gative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative
Genc	otoxicity in vivo	Species: M	Route: Oral
	n cell mutagenicity - ssment	: Weight of cell mutage	evidence does not support classification as a germen.
Stard	:h:		
Geno	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
Cellu	llose:		
	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative
Geno	otoxicity in vivo	cytogenetic Species: M	louse Route: Ingestion
Citric	c acid monohydrate:		
	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: pos	in vitro micronucleus test sitive
		Test Type:	Bacterial reverse mutation assay (AMES)



ersion 6	Revision Date: 23.03.2020	SDS Number: 24378-00015	Date of last issue: 13.09.2019 Date of first issue: 21.10.2014
		Result: nega	ative
Genot	toxicity in vivo	cytogenetic Species: Ra	Route: Ingestion
Titani	ium dioxide:		
Genot	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
Genot	toxicity in vivo	: Test Type: I Species: Mo Result: nega	
	nogenicity assified based on avai	lable information.	
Comp	oonents:		
Speci Applic Expos Targe	cation Route sure time tt Organs r Type ırks	: Mouse : Oral : < 92 weeks : Harderian g : Liver, Lungs : The significa : Rat	
Applic Expos	cation Route sure time r Type	: Oral : 2 Years : Liver, Thyro	id ance of these findings for humans is not certain
Cellu	lose:		
	cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Titani	ium dioxide:		
	cation Route sure time od t	2 Years OECD Test positive	lust/mist/fume) Guideline 453 nism or mode of action may not be relevant in h
Carcir ment	nogenicity - Assess-	: Limited evid animals.	ence of carcinogenicity in inhalation studies wit



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Not c	oductive toxicity lassified based on ava ponents:	ilable information	
	astatin: ts on fertility		
Effect	ts on foetal develop-	Species: F Application Embryo-fo Result: No Test Type: Species: F Application Embryo-fo Result: No Test Type: Species: F Application Embryo-fo Result: Te	n Route: Oral etal toxicity: NOAEL: 25 mg/kg body weight o teratogenic effects, No adverse effects : Embryo-foetal development Rabbit n Route: Oral etal toxicity: NOAEL: 10 mg/kg body weight o teratogenic effects, No adverse effects : Embryo-foetal development
Cellu	lose:		
Effect	ts on fertility	Species: F	n Route: Ingestion
Effect ment	ts on foetal develop-	Species: F	n Route: Ingestion
	acid monohydrate: ts on foetal develop-	Species: F	n Route: Ingestion

STOT - single exposure

Not classified based on available information.



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sтот	- repeated exposur	e		
	ause damage to orga		c nerve, Eye) through prolonged or repeate	
<u>Comp</u>	onents:			
Simva	istatin:			
Target Asses	t Organs sment		optic nerve, Eye ge to organs through prolonged or repeated	
Repea	ated dose toxicity			
<u>Comp</u>	onents:			
Simva	astatin:			
Specie	29	: Rat		
NOAE		: 5 mg/kg		
LOAE		: 30 mg/kg		
	∟ ation Route	: Oral		
			a	
	ure time	: 14 - 104 Week		
Targer	t Organs	. Liver, resus, n	lusculo-skeletal system, Eye	
Specie		: Dog		
LOAE	L	: 10 mg/kg		
Applic	ation Route	: Oral		
Expos	ure time	: 14 - 104 Week	S	
	t Organs	: Liver, Testis, E	ye	
Specie	es	: Rabbit		
NOAE		: 30 mg/kg		
LOAE		: 50 mg/kg		
	- ation Route	: Oral		
	t Organs	: Liver, Kidney		
Starch	1 :			
Specie		: Rat		
NOAE		: >= 2,000 mg/k	9	
	ation Route	: Skin contact	9	
	ure time	: 28 Days		
Metho		: OECD Test Gu	uideline 410	
Cellul				
Specie		: Rat		
NOAE	L	: >= 9,000 mg/k	g	
Applic	ation Route	: Ingestion		
Expos	ure time	: 90 Days		
Citric	acid monohydrate:			
	•	: Rat		
Specie				
NOAE		: 4,000 mg/kg		
LOAE		: 8,000 mg/kg		
ADDIIC	ation Route	: Ingestion		



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Expos	sure time	: 10 Days	
Titani	ium dioxide:		
		: Rat : 24,000 mg/kg : Ingestion : 28 Days)
		: Rat : 10 mg/m3 : inhalation (du : 2 yr	ist/mist/fume)
•	ation toxicity assified based on ava	ilable information.	
Expe	rience with human e	xposure	
<u>Comp</u>	oonents:		
Simva	astatin:		
Skin o Inges	contact tion	: Target Organ Symptoms: u dominal pain	y produce an allergic reaction. s: Liver pper respiratory tract infection, Headache, Ab- constipation, Nausea s: Musculo-skeletal system

Section 12: Ecological information

Ecotoxicity		
Components:		
Simvastatin:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 2.91 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 25 mg/l Exposure time: 96 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 25 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	EC50: > 30 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209



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			NOEC: 21 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	ation inhibition	
	ulose: city to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials	
Citri	c acid monohydrate:				
	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h	
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l I h	
Titar	nium dioxide:				
	city to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h	
Toxic plant	city to algae/aquatic s	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10,000 mg/l 2 h	
Τοχία	Toxicity to microorganisms		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Pers	istence and degradabili	itv			
	ponents:				
	/astatin:				
	egradability	:	Result: rapidly de	gradable	
Stab	ility in water	:	Hydrolysis: 50 %(3.2 d)	
	ulose: egradability	:	Result: Readily bi	odegradable.	
	c acid monohydrate: egradability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD To	97 %	



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cumulative potentia		
onents:		
n statin: on coefficient: n- ol/water	: log Pow: > 4.07	7
acid monohydrate: on coefficient: n- ol/water	: log Pow: -1.72	
i ty in soil ta available		
adverse effects ta available		
	23.03.2020 cumulative potential onents: statin: on coefficient: n- l/water acid monohydrate: on coefficient: n- l/water ty in soil a available adverse effects	23.03.2020 24378-00015 cumulative potential onents: statin: on coefficient: n- i log Pow: > 4.07 i/water acid monohydrate: on coefficient: n- i log Pow: -1.72 i/water ty in soil a available adverse effects

Waste from residues Contaminated packaging	Dispose of in accordance with local regulations. 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

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

NZS 5433 Not regulated as a dangerous good

Section 15: Regulatory information

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

HSNO Approval Number

HSR100425 Pharmaceutical Active Ingredients Group Standard 2017



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нsw	Controls							
	ied handler certificate	•						
Refer	Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further in- formation.							
The c	The components of this product are reported in the following inventories:							
AICS	-	: not determine	ed					
DSL		: not determine	ed					
IECS	с	: not determine	ed					

Section 16: Other information

Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants			
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average			
NZ OLL / WLS-IWA	•	workplace Exposure Standard - Time Weighted average			

AICS - Australian Inventory of Chemical Substances; 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



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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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