

Version 7.1	Revision Date: 26.09.2023	-	S Number: 181-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
	1: IDENTIFICATION uct name	:	Sitagliptin / Si	mvastatin Formulation
Manı	afacturer or supplier's c	letai	ils	
Comp	bany	:	MSD	
Addre	ess	:		evel 1/26 Talavera Rd rk NSW, Australia 2113
Telep	bhone	:	1 800 033 461	l
Emer	gency telephone number	:	Poisons Inforr	nation Centre: Phone 13 11 26
E-ma	il address	:	EHSDATAST	EWARD@msd.com
Reco	ommended use of the cl	nem	ical and restrie	ctions on use
	mmended use	-	Pharmaceutic	
Restr	ictions on use	:	Not applicable	
SECTION	2. HAZARDS IDENTIFI	САТ	ION	
GHS	Classification			
Serio	us eye damage/eye irri-	:	Category 2A	

Serious eye damage/eye irri- tation	:	Category 2A
Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, muscle, optic nerve, Eye)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs (Liver, muscle, optic nerve, Eye) through prolonged or repeated exposure.
Precautionary statements	:	Prevention: P260 Do not breathe dust. P264 Wash skin thoroughly after handling.



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		the workplace	ninated work clothing should not be allowed out of e. rotective gloves/ eye protection/ face protection.
		Response:	
		P305 + P351 for several mi easy to do. Co P314 Get me P333 + P313 vice/ attentior P337 + P313 tention.	IF ON SKIN: Wash with plenty of water. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. dical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- n. If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before
		Disposal:	
		P501 Dispose	of contents/ container to an approved waste

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

Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components
Chemical name

Chemical name	CAS-No.	Concentration (% w/w)
Sitagliptin	654671-77-9	>= 10 -< 30
Cellulose	9004-34-6	< 10
Simvastatin	79902-63-9	>= 1 -< 10
Starch	9005-25-8	< 10
Ascorbic acid	50-81-7	< 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 advice 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. Thoroughly clean shoes before reuse.



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In	case of eye contact	:	for at least 15 min	ove contact lens, if worn.
lf s	swallowed	:	If swallowed, DO Get medical atten	NOT induce vomiting. tion if symptoms occur. oughly with water.
an	Most important symptoms and effects, both acute and delayed		May cause an alle Causes serious e	ergic skin reaction.
Pr	otection of first-aiders	:	First Aid responde and use the recor	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8).
No	otes to physician	:		cally and supportively.
SECTI	ON 5. FIREFIGHTING MEA	SU	RES	
Su	iitable extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical	
	nsuitable extinguishing edia	:	None known.	
	becific hazards during fire- hting	:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Ha uc	azardous combustion prod- ts	:	Carbon oxides Metal oxides Oxides of phosph	orus
Sp od	pecific extinguishing meth- ls	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers.

 Remove undamaged containers from fire area if it is safe to do so.

 Evacuate area.

 Special protective equipment
 :

 In the event of fire, wear self-contained breathing apparatus.

for firefighters Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	nods and materials for ainment and cleaning up	tainer for dispos Avoid dispersal with compresse Dust deposits s es, as these ma leased into the Local or national posal of this ma employed in the mine which reg Sections 13 and	of dust in the air (i.e., clearing dust surfaces
SECTION	N 7. HANDLING AND ST	ORAGE	
Tech	nnical measures	: Static electricity causing an expl	may accumulate and ignite suspended dust

Local/Total ventilation : Advice on safe handling : Hygiene measures :	causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust. 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 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use
	Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage :	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid :	Do not store with the following product types:



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Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Simvastatin	79902-63-9	TWA	25 µg/m3 (OEB 3)	Internal
	Further inform			
		Wipe limit	250 µg/100 cm ²	Internal
Starch	9005-25-8	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3	ACGIH
Ascorbic acid	50-81-7	TWA	5000 µg/m3 (OEB 1)	Internal
Titanium dioxide	13463-67-7	TWA	10 mg/m3	AU OEL
		TWA (Res-	2.5 mg/m3	ACGIH
		pirable par-	(Titanium dioxide)	
		ticulate mat-		
		ter)		

Components with workplace control parameters

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 con- tainment devices). Minimize open handling.
Personal protective equipme	ent	
Respiratory protection Filter type Hand protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.



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Sk	in and body protection	:	task being perfor posable suits) to	parments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially
SECTIO	ON 9. PHYSICAL AND CHI	EMI	CAL PROPERTIE	S
Ap	pearance	:	powder	
Co	blour	:	pink	
Oc	dour	:	No data availab	е
Oc	dour Threshold	:	No data availab	е
p⊦	ł	:	No data availab	е
Me	elting point/freezing point	:	No data availab	е
	tial boiling point and boiling nge	ing : No data available		
Fla	ash point	:	Not applicable	
Εv	aporation rate	:	Not applicable	
Fla	ammability (solid, gas)	:	May form explosed dling or other methods	sive dust-air mixture during processing, han- eans.
Fla	ammability (liquids)	:	No data availab	e
	oper explosion limit / Upper mmability limit	:	No data availab	e
	wer explosion limit / Lower mmability limit	:	No data availab	e
Va	pour pressure	:	Not applicable	
Re	elative vapour density	:	Not applicable	
Re	elative density	:	No data availab	e
De	ensity	:	No data availab	e
Sc	lubility(ies) Water solubility	:	No data availab	е
	artition coefficient: n-	:	Not applicable	
	tanol/water Ito-ignition temperature	:	No data availab	e

SAFETY DATA SHEET



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Deco Visco	mposition temperature	: N	o data available	9
	scosity, kinematic	: N	ot applicable	
Explo	sive properties	: N	ot explosive	
Oxidi	zing properties	: TI	ne substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	: N	o data available	2
Partic	Particle size		o data available	
Reac Chen	nical stability	: N : St	ot classified as table under nor	
tions	bility of hazardous reac-	dl	ing or other me	ve dust-air mixture during processing, han- ans. rong oxidizing agents.
Cond	itions to avoid		eat, flames and void dust forma	
	npatible materials rdous decomposition icts		xidizing agents o hazardous de	composition products are known.
SECTION	11. TOXICOLOGICAL	INFORM	IATION	
Ехро	sure routes	Sk Ing	nalation in contact gestion e contact	

Acute toxicity

Not classified based on available information.

Components:

Sitagliptin: Acute oral toxicity	:	LD50 (Rat): > 3,000 mg/kg LD50 (Mouse): 3,000 mg/kg
Cellulose: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h



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		Test atmosp	here: dust/mist		
		-			
Acute	e dermal toxicity	: LD50 (Rabbi	t): > 2,000 mg/kg		
Simv	astatin:				
Acute	e oral toxicity	: LD50 (Rat):	5,000 mg/kg		
		LD50 (Mous	e): 3,800 mg/kg		
Starc	:h:				
Acute	e oral toxicity	: LD50 (Rat)::	> 5,000 mg/kg		
Acute	e dermal toxicity	: LD50 (Rabbi	t): > 2,000 mg/kg		
Asco	rbic acid:				
Acute	e oral toxicity	: LD50 (Rat):	11,900 mg/kg		
Titan	ium dioxide:				
Acute	e oral toxicity	: LD50 (Rat)::	> 5,000 mg/kg		
Acute	inhalation toxicity	Exposure tin Test atmosp	Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala		
Skin	corrosion/irritation				
	lassified based on ava	ailable information.			
	ponents:				
-	liptin:	: Rabbit			
Spec Metho		: Rabbit : Draize Test			
Resu	lt	: No skin irrita	tion		
Simv	astatin:				
Spec	ies	: Rabbit			
Rema	arks	: Moderate sk	in irritation		
Asco	rbic acid:				
Spec		: Rabbit			
Metho		: OECD Test : No skin irrita	Guideline 404 tion		
Resu					
	ium dioxido:				
	ium dioxide:	: Rabbit			



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Resul	t	: No skin irritatior	ı
Serio	us eye damage/eye	irritation	
	es serious eye irritatio		
<u>Comp</u>	oonents:		
Sitagl	liptin:		
Specie		: Rabbit	
Resul		: Irritating to eyes	5.
Metho	DQ	: Draize Test	
Simva	astatin:		
Specie		: Rabbit	
Rema	irks	: slight irritation	
Starc	h:		
Specie	es	: Rabbit	
Resul	t	: No eye irritation	1
Asco	rbic acid:		
Specie		: Rabbit	
Resul	t	: No eye irritation	
Metho	od	: OECD Test Gui	deline 405
Titani	um dioxide:		
Specie	es	: Rabbit	
Resul	t	: No eye irritation	1
Respi	iratory or skin sensi	itisation	
Skin s	sensitisation		
May c	ause an allergic skin	reaction.	
Respi	iratory sensitisation	I	
-	assified based on ava		
<u>Comp</u>	oonents:		
Sitagl	liptin:		
Test T		: Local lymph no	de assay (LLNA)
0		: Mouse	deline 400
Specie	Ju	: OECD Test Gui	
Specie Metho Resul	t	: Not a skin sens	
Metho Resul		: NOT A SKIN SENS	
Metho Result	t astatin: ssment		vidence of skin sensitisation in humans



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Starc	h:		
Test 7	Гуре	: Maximisation	Test
Expos Speci	sure routes	: Skin contact : Guinea pig	
Resul		: negative	
Asco	rbic acid:		
Test 7	Гуре sure routes	: Maurer optimis : Skin contact	sation test
Speci		: Guinea pig	
Resul	t	: negative	
	ium dioxide:		
Test T Expos	Гуре sure routes	: Local lymph no : Skin contact	ode assay (LLNA)
Speci	es	: Mouse	
Result		: negative	
	nic toxicity		
Germ Not cl	cell mutagenicity assified based on av	vailable information.	
Germ Not cl <u>Com</u> t	cell mutagenicity assified based on av ponents:	vailable information.	
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:		nos tost
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents:	vailable information. : Test Type: Am Result: negativ	
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch	/e romosome aberration test in vitro
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch	ve romosome aberration test in vitro Chinese hamster ovary cells
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch Test system: C Result: negativ Test Type: DN	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA s
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch Test system: C Result: negativ Test Type: DN thesis in mam	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA s malian cells (in vitro)
Germ Not cl <u>Comp</u> Sitag	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch Test system: C Result: negativ Test Type: DN thesis in mam	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes
Germ Not cl Comp Sitag Geno	cell mutagenicity assified based on av ponents: liptin:	: Test Type: Am Result: negativ Test Type: Ch Test system: C Result: negativ Test Type: DN thesis in mam Test system: r Result: negativ : Test Type: Mic	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes ve cronucleus test
Germ Not cl Comp Sitag Geno	cell mutagenicity assified based on av <u>conents:</u> liptin: toxicity in vitro	 Test Type: Am Result: negative Test Type: Ch Test system: Co Result: negative Test Type: DN thesis in mame Test system: re Result: negative Construction Test Type: Mico Species: Moust 	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes ve cronucleus test se
Germ Not cl Comp Sitag Geno	cell mutagenicity assified based on av <u>conents:</u> liptin: toxicity in vitro	: Test Type: Am Result: negativ Test Type: Ch Test system: C Result: negativ Test Type: DN thesis in mam Test system: r Result: negativ : Test Type: Mic	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes ve cronucleus test se pute: Oral
Germ Not cl Comp Sitag Geno	cell mutagenicity assified based on av <u>ponents:</u> liptin: toxicity in vitro	 Test Type: Am Result: negative Test Type: Ch Test system: Co Result: negative Test Type: DN thesis in mamp Test system: result: negative Construction Roman Test Type: Mico Species: Mouse Application Roman 	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes ve cronucleus test se pute: Oral
Germ Not cl Comp Sitag Geno Geno	cell mutagenicity assified based on av <u>ponents:</u> liptin: toxicity in vitro	 Test Type: Am Result: negative Test Type: Ch Test system: Co Result: negative Test Type: DN thesis in mamp Test system: re Result: negative Test Type: Mice Species: Mouse Application Ro Result: negative 	ve romosome aberration test in vitro Chinese hamster ovary cells ve IA damage and repair, unscheduled DNA malian cells (in vitro) at hepatocytes ve cronucleus test se bute: Oral ve



rsion	Revision Date: 26.09.2023	SDS Number: 24481-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
		Result: nega	ativo
Geno	toxicity in vivo	: Test Type: N cytogenetic : Species: Mo	<i>l</i> ammalian erythrocyte micronucleus test (in viv assay) use Route: Ingestion
Simv	astatin:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: A Result: nega	Alkaline elution assay
		Test Type: 0 Result: nega	Chromosomal aberration
		Test Type: lı Result: nega	n vitro mammalian cell gene mutation test ative
Geno	toxicity in vivo	: Test Type: N Species: Mo Application F Result: nega	Route: Oral
	n cell mutagenicity - ssment	: Weight of ev cell mutager	ridence does not support classification as a gerr n.
Starc	:h:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
Asco	rbic acid:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: lı Result: nega	n vitro mammalian cell gene mutation test ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro
Geno	toxicity in vivo	cytogenetic Species: Mo	use Route: Ingestion

Titanium dioxide:



rsion I	Revision Date: 26.09.2023		lumber: -00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
Geno	toxicity in vitro		st Type: Ba sult: negativ	cterial reverse mutation assay (AMES) ve
Geno	Genotoxicity in vivo		st Type: In vecies: Mous esult: negativ	
	nogenicity assified based on avai	lable info	rmation	
	oonents:		innation.	
Sitag	liptin:			
	cation Route sure time	: Or : 2 \	ouse al ⁄ears gative	
Expos Resul	cation Route sure time t t Organs	: 2 \ : po : Liv	al (drinking v Years sitive ver	water) icity observed in testing
Carcii ment	nogenicity - Assess-		eight of evid logen	ence does not support classification as a car
Cellu	lose:			
	cation Route sure time	: 72	it gestion weeks gative	
Simva	astatin:			
Expos Targe	cation Route sure time et Organs r Type	: Or : < 9 : Ha : Liv	92 weeks Irderian glar ver, Lungs	nd ce of these findings for humans is not certain
Expos	cation Route sure time r Type	: Liv	al ⁄ears ⁄er, Thyroid	ce of these findings for humans is not certain
Asco	rbic acid:			
Speci		: Mc	ouse	



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I	Applica Exposu Result	tion Route re time	: : :	Ingestion 2 Years negative	
	Species Applica Exposu Method Result Remark Carcinc	tion Route re time	: : : : : : : : : : : : : : : : : : : :	mans. Limited evidence of	
l	-	luctive toxicity ssified based on availa nents:	ble	animals. information.	
	Sitaglip Effects	otin: on fertility	:	Species: Rat Application Route Fertility: NOAEL F	/early embryonic development : Oral Parent: 1,000 mg/kg body weight ting did not show any effects on fertility.
	Effects ment	on foetal develop-	:	Species: Rat Application Route Teratogenicity: LC Result: Embryoto spring were detec Test Type: Embry Species: Rabbit	DAEL: 250 mg/kg body weight cic effects and adverse effects on the off- ted., No teratogenic effects o-foetal development DAEL: 125 mg/kg body weight
	Cellulo Effects	se: on fertility	:	Test Type: One-ge Species: Rat Application Route Result: negative	eneration reproduction toxicity study
	Effects ment	on foetal develop-	:	Test Type: Fertility Species: Rat Application Route Result: negative	/early embryonic development



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Simv	astatin:		
-	ts on fertility	: Test Type: Fer Species: Rat, r Application Ro Fertility: LOAE	nale
Effect ment	ts on foetal develop-	Species: Rat Application Ro Embryo-foetal	bryo-foetal development ute: Oral toxicity: NOAEL: 25 mg/kg body weight togenic effects, No adverse effects
		Species: Rabb Application Ro Embryo-foetal	
		Species: Rat Application Ro Embryo-foetal Result: Teratog	toxicity: LOAEL: 60 mg/kg body weight
Asco	rbic acid:		
Effect ment	ts on foetal develop-	: Test Type: Em Species: Rat Application Ro Result: negativ	
	- single exposure lassified based on avai		
INOL CI			
STOT	F - repeated exposure		
	0 0		c nerve, Eye) through prolonged or repeated
May o expos	cause damage to organ		c nerve, Eye) through prolonged or repeated
May o expos <u>Com</u> t	cause damage to organ sure.		c nerve, Eye) through prolonged or repeated
May of expose <u>Comp</u> Simva Targe	cause damage to orgar sure. ponents:	ns (Liver, muscle, opti : Liver, muscle,	c nerve, Eye) through prolonged or repeated optic nerve, Eye Je to organs through prolonged or repeated
May o expose Comp Simv Targe Asses	cause damage to organ sure. ponents: astatin: et Organs	ns (Liver, muscle, opti : Liver, muscle, : Causes damag	optic nerve, Eye
May of expose Comp Simva Targe Asses Repe	cause damage to organ sure. ponents: astatin: et Organs ssment	ns (Liver, muscle, opti : Liver, muscle, : Causes damag	optic nerve, Eye
May of expose Comp Simva Targe Asses Repe Comp	cause damage to organ sure. ponents: astatin: et Organs ssment ated dose toxicity	ns (Liver, muscle, opti : Liver, muscle, : Causes damag	



ersion 1	Revision Date: 26.09.2023	SDS Number: 24481-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014			
NOAE	-1	: 500 mg/kg				
LOAE		: 1,000 mg/kg				
	ation Route	: Oral				
	sure time	: > 2 yr				
large	t Organs	: Kidney				
Speci		: Rat				
NOAE LOAE		: 500 mg/kg				
	ation Route	: 1,000 mg/kg : Oral				
	sure time	: 14 Weeks				
	t Organs	: Liver, Kidney,	Heart, Teeth			
Speci		: Dog				
NOAE LOAE		: 10 mg/kg : 50 mg/kg				
	ation Route	: Oral				
	sure time	: 53 Weeks				
	t Organs	: Central nervou				
Symp Rema		: Loss of balance				
Rema	IIKS	mans.	m or mode of action may not be relevant in hu			
Speci		: Dog				
NOAE		: 2 mg/kg				
LOAE	L cation Route	: 10 mg/kg : Oral				
	sure time	: 27 Weeks				
	t Organs		le, Central nervous system			
Symp		: Loss of balance				
Rema	ırks	: The mechanis mans.	m or mode of action may not be relevant in hu			
Speci		: Monkey				
NOAE		: 100 mg/kg				
	cation Route sure time	: Oral				
Rema		: 14 Weeks: No significant adverse effects were reported				
Cellu	lose:					
Speci		: Rat				
NOAE		: >= 9,000 mg/k	q			
Applic	ation Route	: Ingestion	<u>.</u>			
Expos	sure time	: 90 Days				
Simva	astatin:					
Speci		: Rat				
NOAE		: 5 mg/kg				
LOAE		: 30 mg/kg : Oral				
	cation Route sure time	: 0rai : 14 - 104 Week	(S			



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Targe	t Organs	: Liver, Testis.	Musculo-skeletal system, Eye
-	-		
Speci LOAE		: Dog : 10 mg/kg	
Applic	ation Route	: Oral	
	sure time t Organs	: 14 - 104 We : Liver, Testis	
-	-		
Speci NOAE		: Rabbit : 30 mg/kg	
LOAE		: 50 mg/kg	
	cation Route	: Oral : Liver. Kidney	,
rarge	t Organs	: Liver, Kidney	
Starc	h:		
Speci		: Rat	
NOAE Applic	L cation Route	: >= 2,000 mg : Skin contact	
	sure time	: 28 Days	
Metho	od	: OECD Test	Guideline 410
Asco	rbic acid:		
Speci		: Rat, male	
NOAE Applic	L Cation Route	: >= 8,100 mg : Ingestion	/kg
	sure time	: 13 Weeks	
Titani	ium dioxide:		
Speci		: Rat	
NOAE	EL	: 24,000 mg/k	g
	cation Route sure time	: Ingestion : 28 Days	
Speci NOAE		: Rat : 10 mg/m3	
	cation Route		ust/mist/fume)
Expos	sure time	: 2 yr	
Aspir	ation toxicity		
-	assified based on av	ailable information.	
Expe	rience with human e	xposure	
Comp	oonents:		
Sitag	liptin:		
Inhala	ation		upper respiratory tract infection, pharyngitis,
Inges	tion	Headache : Symptoms: u	upper respiratory tract infection, nasopharyngitis
			lausea, Abdominal pain, Diarrhoea



ersion 1	Revision Date: 26.09.2023	-	S Number: 481-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
Simvastatin: Skin contact Ingestion		:	Target Organs Symptoms: up dominal pain, o	produce an allergic reaction. : Liver per respiratory tract infection, Headache, Ab- constipation, Nausea : Musculo-skeletal system
	12. ECOLOGICAL INFO	DRN	IATION	
Ecoto	xicity			
<u>Comp</u>	onents:			
Sitagl		_		
I OXICII	y to fish	:	Exposure time	ales promelas (fathead minnow)): > 100 mg/l : 96 h) Test Guideline 203
	ty to daphnia and other c invertebrates	:	Exposure time	a magna (Water flea)): 60 mg/l : 48 h) Test Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time	kirchneriella subcapitata (green algae)): > 39 : 96 h) Test Guideline 201
			mg/l Exposure time	okirchneriella subcapitata (green algae)): 2.2 : 96 h 9 Test Guideline 201
Toxicit icity)	ty to fish (Chronic tox-	:	Exposure time	hales promelas (fathead minnow)): 9.2 mg/l : 33 d) Test Guideline 210
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time	ia magna (Water flea)): 9.8 mg/l : 21 d) Test Guideline 211
Toxicit	ty to microorganisms	:		
			NOEC: 150 mg Exposure time Test Type: Res	
Cellul	ose:			
	y to fish			latipes (Japanese medaka)): > 100 mg/l



ersion 1	Revision Date: 26.09.2023		9S Number: 481-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014
			Exposure time: 48 Remarks: Based	3 h on data from similar materials
•	astatin: ty to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD T	
	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 (Pseudokiro mg/l Exposure time: 96	chneriella subcapitata (green algae)): > 25 S h
			NOEC (Pseudokin mg/l Exposure time: 96	rchneriella subcapitata (green algae)): 25 S h
Toxici	ty to microorganisms	:	EC50: > 30 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	ation inhibition
			NOEC: 21 mg/l Exposure time: 3 Test Type: Respir Method: OECD T	ation inhibition
Ascor	rbic acid:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
Toxici	ty to microorganisms	:	EC50: 140 mg/l Exposure time: 16 Method: DIN 38 4	
Titani	um dioxide:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD T	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h
	Toxicity to algae/aquatic plants		EC50 (Skeletoner Exposure time: 72	ma costatum (marine diatom)): > 10,000 m 2 h



ersion .1	Revision Date: 26.09.2023		OS Number: 481-00022	Date of last issue: 20.03.2023 Date of first issue: 21.10.2014	
Toxic	ity to microorganisms	:	EC50: > 1,000 r Exposure time: Method: OECD		
Persi	stence and degradab	ility			
Com	ponents:				
-	liptin: gradability	:	Biodegradation: Exposure time:	39.7 %	
Stabil	lity in water	:	Hydrolysis: 50 % Method: OECD	%(401 d) Test Guideline 111	
Cellu Biode	lose: gradability	:	: Result: Readily biodegradable.		
	astatin:				
Biode	egradability	:	Result: rapidly c	legradable	
Stabil	lity in water	:	Hydrolysis: 50 %	%(3.2 d)	
	rbic acid: gradability	:	 Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 5 d Method: OECD Test Guideline 302 		
Bioad	ccumulative potential				
Com	ponents:				
Partit	liptin: ion coefficient: n- ol/water	:	log Pow: -0.03		
Partit	astatin: ion coefficient: n- ol/water	:	: log Pow: > 4.07		
Partit	Ascorbic acid: Partition coefficient: n- octanol/water		log Pow: -1.85		



oc: 4.37
IS
t dispose of waste into sewer.
se of in accordance with local regulations. / containers should be taken to an approved waste han- site for recycling or disposal. otherwise specified: Dispose of as unused product.
oplicable
pplicable
pplicable
oplicable

Not applicable

:

IAI	A-DGR	

Labels

Labels

EmS Code

Marine pollutant

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo	:	Not applicable
aircraft)		
Packing instruction (passen-	:	Not applicable
ger aircraft)		
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable

: Not applicable

: Not applicable Not applicable

:



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

Not applicable for product as supplied.

National Regulations

ADG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Prohibition/Licensing Requirements

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

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information	
Revision Date : Sources of key data used to : compile the Safety Data Sheet	26.09.2023 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 abbreviation	3
	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.



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ACGIH / TWA	:	8-hour, time-weighted average
AU OEL / TWA	:	Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

AU / EN