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### Sitagliptin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07.03.2023
5.1	26.09.2023	2160736-00009	Date of first issue: 09.11.2017

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

1.1	Product identifier		
	Trade name	:	Sitagliptin Formulation
1.2	Relevant identified uses of t	he s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan
			. Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

National Poison Control Center (UZEM): 114 Emergency: 1-908-423-6000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification T.R. SEA Eye irritation, Category 2 2.2 Label elements		<b>Dsequent amendments</b> H319: Causes serious eye irritation.
Labelling T.R. SEA No 2 Hazard pictograms	28848 and subseq	uent amendments
Signal word	: Warning	

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : Prevention:

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			n thoroughly after handling.
		ter for several mine easy to do. Contin	338 IF IN EYES: Rinse cautiously with wa- nutes. Remove contact lenses, if present and nue rinsing. eye irritation persists: Get medical advice/
Addit	ional Labelling:		
EUH2		opyl 3,4,5-trihydroxybe e an allergic reaction.	enzoate.

### 2.3 Other hazards

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. KKDIK Registra- tion No.	SEA Classification	Concentration (% w/w)
Sitagliptin	654671-77-9	Eye Irrit. 2; H319	>= 30 - < 50
Titanium dioxide	13463-67-7 236-675-5 022-006-00-2	Carc. 2; H351	>= 0,1 - < 1
Propyl 3,4,5-trihydroxybenzoate	121-79-9 204-498-2 607-198-00-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 1
Substances with a workplace exposur			
Cellulose	9004-34-6 232-674-9		>= 20 - < 30

For explanation of abbreviations see section 16.

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### **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).			
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.			
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
4.2 Most important symptoms and effects, both acute and delayed					
Risks	:	Causes serious eye irritation.Contact with dust can cause mechanical irritation or drying of the skin.			
4.3 Indication of any immediate	me	dical 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.

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5.2 S	special	hazards arising from	the	e substance or mi	xture
	Specific fighting	c hazards during fire-	:	concentrations, and 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.
Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides Oxides of phosph	orus	
5.3 A	dvice	for firefighters			
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	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

### **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. Local authorities should be advised if significant spillages cannot be contained.
---------------------------	---	--

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>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 surfaces, 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</li> </ul>
	certain local or national requirements.

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### 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 handling, or inert atmospheres.
	Local/Total ventilation Advice on safe handling	:	and bonding, or inert atmospheres. Use only with adequate ventilation. Do not get on skin or clothing. Avoid breathing 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. Take care to prevent spills, waste and minimize release to the
	Hygiene measures	:	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. 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,	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
	Advice on common storage	:	Do not store with the following product types:

### 7.3 Specific end use(s)

Specific use(s) : No data available

Strong oxidizing agents

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Dust

15 mg/m3 Value type (Form of exposure): ZOAD/TWA (Total dust) Basis: TR OEL DU Further information: Allowable occupational exposure limit values of mineral dusts

5 mg/m3 Value type (Form of exposure): ZOAD/TWA (Respirable part) Basis: TR OEL DU Further information: Allowable occupational exposure limit values of mineral dusts

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Sitagliptin	654671-77- 9	TWA	0.5 mg/m3 (OEB 2)	Internal		
Cellulose	9004-34-6 ZOAD/TWA (T tal dust)		15 mg/m3	TR OEL DU		
	Further inform	nation: Allowable occ	upational exposure limit valu	les of chemicals		
	in dust form					
		ZOAD/TWA	5 mg/m3	TR OEL DU		
		(Respirable dust)				
	Further information: Allowable occupational exposure limit values of chemicals in dust form					
Titanium dioxide	13463-67-7	ZOAD/TWA (To- tal dust)	15 mg/m3	TR OEL DU		
	Further information: Allowable occupational exposure limit values of chemicals in dust form					

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Titanium dioxide

#### Derived No Effect Level (DNEL) :

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propyl 3,4,5- trihydroxybenzoate	Workers	Inhalation	Long-term systemic effects	6,66 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,89 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,17 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,675 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,675 mg/kg bw/day

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#### Predicted No Effect Concentration (PNEC) :

Substance name	Environmental Compartment	Value
Propyl 3,4,5-trihydroxybenzoate	Fresh water	0,37 µg/l
	Freshwater - intermittent	3,7 µg/l
	Marine water	0,037 µg/l
	Marine water - intermittent	0,37 µg/l
	Sewage treatment plant	6,36 mg/l
	Fresh water sediment	0,0045 mg/kg dry weight (d.w.)
	Marine sediment	0,00045 mg/kg
		dry weight (d.w.)
	Soil	0,000688 mg/kg
		dry weight (d.w.)

#### 8.2 Exposure controls

#### **Engineering measures**

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

#### 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.
Hand protection		
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. 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 TS EN 143
Filter type	:	Particulates type (P)

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	No data available
Odour	:	No data available
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

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	Flash p	point	:	Not applicable	
	Evaporation rate		:	Not applicable	
	Flammability (solid, gas)		:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
	Upper explosion limit / Upper flammability limit		:	No data available	e
		explosion limit / Lower Ibility limit	:	No data available	e
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	e
	Density	/	:	No data available	e
	Partitio octanol	er solubility n coefficient: n-	:	No data available Not applicable No data available	
	Decom	position temperature	:	No data available	e
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	oformation			
	Flamma	ability (liquids)	:	No data available	9
	Molecu	lar weight	:	No data available	e
	Particle	e size	:	No data available	e

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

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10.3 Poss	ibility of hazardous	reactions					
Hazardous reactions		dling or other	: May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.				
10.4 Cond	litions to avoid						
Condi	tions to avoid	: Heat, flames a Avoid dust for					
10.5 Incon	npatible materials						
Mater	ials to avoid	: Oxidizing age	nts				
	rdous decompositio	-					
No ha	zardous decompositi	ion products are knowr	ו.				
SECTION	l 11: Toxicologica	l information					
111 Infor	mation on toxicolog	ical effects					
	nation on likely routes	·					
expos	•	Skin contact					
	•	Skin contact Ingestion					
expos	sure	Skin contact					
expos Acute	•	Skin contact Ingestion Eye contact					
expos <b>Acute</b> Not cl	e toxicity	Skin contact Ingestion Eye contact					
expos Acute Not cl <u>Com</u>	sure <b>toxicity</b> assified based on ava <u>conents:</u>	Skin contact Ingestion Eye contact					
expos Acute Not cl <u>Comp</u> Sitag	sure <b>toxicity</b> assified based on ava <u>conents:</u>	Skin contact Ingestion Eye contact	3.000 mg/kg				
expos Acute Not cl <u>Comp</u> Sitag	sure <b>toxicity</b> assified based on ava <u>conents:</u> liptin:	Skin contact Ingestion Eye contact ailable information.					
expos Acute Not cl <u>Comp</u> Sitag Acute	sure <b>toxicity</b> assified based on ava <u>conents:</u> liptin:	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3					
Acute Not cl <u>Comp</u> Sitagi Acute	sure <b>assified based on ava</b> <b>conents:</b> <b>liptin:</b> oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3	: 3.000 mg/kg				
Acute Not cl <u>Comp</u> Sitagl Acute Titani Acute	e toxicity assified based on ava <u>conents:</u> liptin: oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse):	: 3.000 mg/kg 5.000 mg/kg				
Acute Not cl <u>Comp</u> Sitagl Acute Titani Acute	e toxicity assified based on ava <u>conents:</u> liptin: oral toxicity ium dioxide: oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LD50 (Rat): > 4 : LC50 (Rat): > 6 Exposure time	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h				
Acute Not cl <u>Comp</u> Sitagl Acute Titani Acute	e toxicity assified based on ava <u>conents:</u> liptin: oral toxicity ium dioxide: oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LD50 (Rat): > 4 : LC50 (Rat): > 4 Exposure time Test atmosphe	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h				
expos Acute Not cl Comp Sitagi Acute Titani Acute	e toxicity assified based on ava <u>conents:</u> liptin: oral toxicity ium dioxide: oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LC50 (Rat): > 4 : LC50 (Rat): > 4 Exposure time Test atmosphe Assessment: T tion toxicity	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h ere: dust/mist				
Acute Not cl Comp Sitagi Acute Titani Acute Acute	sure assified based on avainable conents: liptin: oral toxicity ium dioxide: oral toxicity inhalation toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LC50 (Rat): > 4 : LC50 (Rat): > 4 Exposure time Test atmosphe Assessment: T tion toxicity	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h ere: dust/mist				
Acute Not cl Comp Sitagi Acute Titani Acute Acute Propy Acute	sure assified based on available conents: liptin: oral toxicity ium dioxide: oral toxicity inhalation toxicity // 3,4,5-trihydroxybe	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LC50 (Rat): > 4 : LC50 (Rat): > 4 Exposure time Test atmosphe Assessment: T tion toxicity	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h ere: dust/mist The substance or mixture has no acute inhala- female): > 1.000 - 2.000 mg/kg				
Acute Not cl Comp Sitagl Acute Titani Acute Acute Propy Acute	sure assified based on avainable conents: liptin: oral toxicity ium dioxide: oral toxicity inhalation toxicity // 3,4,5-trihydroxybe oral toxicity	Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 3 LD50 (Mouse): : LC50 (Rat): > 4 : LC50 (Rat): > 4 Exposure time Test atmosphe Assessment: T tion toxicity enzoate: : LD50 (Mouse, : LD50 (Rat): > 3 Method: OECE	: 3.000 mg/kg 5.000 mg/kg 6,82 mg/l : 4 h ere: dust/mist The substance or mixture has no acute inhala- female): > 1.000 - 2.000 mg/kg				

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Cellul	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5.0	00 mg/kg
Acute inhalation toxicity		:	LC50 (Rat): > 5,8 Exposure time: 4 Test atmosphere	h
Acute	dermal toxicity	:	LD50 (Rabbit): >	2.000 mg/kg
Skin (	corrosion/irritation			
Not cla	assified based on ava	ilable	information.	
<u>Comp</u>	oonents:			
Sitagl	liptin:			
Specie		:		
Metho		:	Draize Test	
Result	t	:	No skin irritation	
Titani	um dioxide:			
Specie	es	:	Rabbit	
Result	t	:	No skin irritation	
Propy	/l 3,4,5-trihydroxybei	nzoat	e:	
Specie		:		man epidermis (RhE)
Metho		:	OECD Test Guide	
Result	t	:	No skin irritation	
Serio	us eye damage/eye i	rritati	on	
Cause	es serious eye irritation	า.		
<u>Comp</u>	oonents:			
Sitagl	liptin:			
Specie		:	Rabbit	
Metho	bd	:	Draize Test	
Result	t	:	Irritating to eyes.	
	t ium dioxide:	:	Irritating to eyes.	
	um dioxide:	:	Rabbit	
Titani	i <b>um dioxide:</b> es	:		
<b>Titani</b> Specie Result	i <b>um dioxide:</b> es t	: : : : nzoat	Rabbit No eye irritation	
Titani Specie Result Propy	t <b>um dioxide:</b> es t <b>/I 3,4,5-trihydroxybe</b> i	nzoat	Rabbit No eye irritation	
<b>Titani</b> Specie Result	tum dioxide: es t /I 3,4,5-trihydroxyber es	: : : : : :	Rabbit No eye irritation	eline 405

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Res	piratory or skin sensi	itisation							
	Skin sensitisation Not classified based on available information.								
	Respiratory sensitisation Not classified based on available information.								
Con	nponents:								
Sitagliptin:Test Type: Local lymph node assay (LLNA)Species: MouseMethod: OECD Test Guideline 429Result: Not a skin sensitizer.									
Tes		: Local lymph noo : Skin contact : Mouse : negative	de assay (LLNA)						
Pro	pyl 3,4,5-trihydroxybe	enzoate:							
Exp	t Type osure routes cies ult	<ul> <li>Local lymph node assay (LLNA)</li> <li>Skin contact</li> <li>Mouse</li> <li>positive</li> </ul>							
Ass	essment	: Probability or ev	vidence of skin sensitisation in humans						
	<b>m cell mutagenicity</b> classified based on ava	ailable information.							
<u>Con</u>	nponents:								
	gliptin: notoxicity in vitro	: Test Type: Ame Result: negative							
			omosome aberration test in vitro ninese hamster ovary cells						
Gen	otoxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Result: negative	e te: Oral						

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Ti	itaniu	m dioxide:				
G	Senoto	xicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)	
G	Genotoxicity in vivo		:	Test Type: In vivo micronucleus test Species: Mouse Result: negative		
Р	ropyl	3,4,5-trihydroxybe	enzoate	):		
G	Genoto	xicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)	
				Test Type: In vitr Result: positive	o mammalian cell gene mutation test	
				Test Type: Chror Result: positive	mosome aberration test in vitro	
					damage and repair, unscheduled DNA syn- Ilian cells (in vitro)	
				Test Type: In vitr malian cells Result: positive	o sister chromatid exchange assay in mam-	
G	Genotoxicity in vivo		:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
•						
	<b>ellulo</b> Genoto	s <b>e:</b> xicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)	
				Test Type: In vitr Result: negative	o mammalian cell gene mutation test	
G	Senoto	xicity in vivo	:	Test Type: Mami cytogenetic assa Species: Mouse Application Route Result: negative		

### Carcinogenicity

Not classified based on available information.

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<u>Com</u>	ponents:				
Sitag	liptin:				
Speci Applie	ies cation Route sure time	: Mouse : Oral : 2 Years : negative			
Expo Resu	cation Route sure time It et Organs	: Rat : oral (drinking : 2 Years : positive : Liver : Significant to	y water) exicity observed in testing		
Carcinogenicity - Assess- ment		: Weight of evidence does not support classification as a car- cinogen			
Titan	ium dioxide:				
	cation Route sure time od It	<ul> <li>2 Years</li> <li>OECD Test ( positive</li> <li>The mechan mans.</li> <li>This substant</li> </ul>	ust/mist/fume) Guideline 453 ism or mode of action may not be relevant in hu- ce(s) is not bioavailable and therefore does not a dust inhalation hazard.		
Carci ment	nogenicity - Assess-	: Limited evide animals.	ence of carcinogenicity in inhalation studies with		
Prop	yl 3,4,5-trihydroxyber	zoate:			
Speci		· Rat			

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	103 weeks
Result	:	negative

### Cellulose:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	72 weeks
Result	:	negative

#### **Reproductive toxicity**

Not classified based on available information.

#### Components:

#### Sitagliptin:

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	Effects	on fertility	:	Species: Rat Application Route Fertility: NOAEL F	y/early embryonic development : Oral Parent: 1.000 mg/kg body weight sting did not show any effects on fertility.
	Effects on foetal develop- ment		:	<ul> <li>Test Type: Embryo-foetal development Species: Rat Application Route: Oral Teratogenicity: LOAEL: 250 mg/kg body weight Result: Embryotoxic effects and adverse effects on th spring were detected., No teratogenic effects</li> </ul>	
				Species: Rabbit	o-foetal development DAEL: 125 mg/kg body weight genic effects
	Propyl	3,4,5-trihydroxybenz	oat	e:	
		on fertility	:		eneration reproduction toxicity study : Ingestion
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	o-foetal development : Ingestion
	Cellulo	200			
		on fertility	:	Test Type: One-ge Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects ment	on foetal develop-	:	Test Type: Fertility Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
		- single exposure Issified based on availa	able	information.	
		- repeated exposure ssified based on availa	able	information.	
		ted dose toxicity			
	-	onents:			
	Sitagli Specie	ptin:	•	Mouse	
		-	•		

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105  $\,$ 



## Sitagliptin Formulation

Version 5.1	Revision Date: 26.09.2023	SDS Number: 2160736-00009	Date of last issue: 07.03.2023 Date of first issue: 09.11.2017
Expo		: 500 mg/kg : 1.000 mg/kg : Oral : > 2 yr : Kidney	
Expo	ΞL	: Rat : 500 mg/kg : 1.000 mg/kg : Oral : 14 Weeks : Liver, Kidney,	Heart, Teeth
Expo	EL EL sure time of Organs otoms	<ol> <li>Dog</li> <li>10 mg/kg</li> <li>50 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Central nervou</li> <li>Loss of balanc</li> <li>The mechanist mans.</li> </ol>	
Expo	EL EL cation Route sure time et Organs otoms	: Loss of balanc	e, Central nervous system e m or mode of action may not be relevant in hu-
	EL cation Route sure time	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significant :	adverse effects were reported
Titan	ium dioxide:		
		: Rat : 24.000 mg/kg : Ingestion : 28 Days	
		: Rat : 10 mg/m3 : inhalation (dus : 2 yr	t/mist/fume)
Prop	vl 3.4.5-trihvdroxvbe	nzoate:	

### Propyl 3,4,5-trihydroxybenzoate:

: Rat

Prepared in accordance with the provisions of KKDIK Annex-2 Regulation, 23.06.2017, No: 30105



## Sitagliptin Formulation

rsion	Revision Date: 26.09.2023	SDS Number: 2160736-00009	Date of last issue: 07.03.2023 Date of first issue: 09.11.2017
NOAE		: 135 mg/kg	
	cation Route sure time	: Ingestion : 13 Weeks	
Cellu	lose:		
Speci		: Rat	
NOAE		: >= 9.000 mg	/kg
	cation Route sure time	: Ingestion : 90 Days	
Expo			
Aspir	ration toxicity		
Not classified based on availab		ilable information.	
Expe	rience with human e	kposure	
<u>Com</u>	ponents:		
Sitag	liptin:		
Inhala	ation	: Symptoms: ι Headache	upper respiratory tract infection, pharyngitis,
Inges	tion		upper respiratory tract infection, nasopharyngitis Iausea, Abdominal pain, Diarrhoea

### 12.1 Toxicity

### **Components:**

Sitagliptin:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 60 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 39 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 : > 150 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209

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NOEC: 150 mg/l Exposure time: 3 h Test Type: Respiration inhibition         Toxicity to fish (Chronic tox- icity)       : NOEC: 9,2 mg/l Exposure time: 33 d Species: Pimphales promelas (fathead minnow) Method: OECD Test Guideline 210         Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)       : NOEC: 9,8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211         Titanium dioxide: Toxicity to fish       : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203         Toxicity to daphnia and other aquatic invertebrates       : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 72 h         Toxicity to algae/aquatic plants       : EC50 (Skeletonema costatum (marine diatom)): > 10.000 mg/l Exposure time: 72 h         Toxicity to microorganisms       : EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 72 h         Toxicity to daphnia and other aquatic invertebrates       : EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 72 h         Toxicity to microorganisms       : EC50 (Caphnia magna (Water flea)): 19,06 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 202         Toxicity to algae/aquatic invertebrates       : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201         EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201         M-Fac	Vers 5.1	ion	Revision Date: 26.09.2023		9S Number: 60736-00009	Date of last issue: 07.03.2023 Date of first issue: 09.11.2017
icity)Exposure time: 33 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210Toxicity to daphnia and other:NOEC: 9,8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211Titanium dioxide::.Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 36 h Method: OECD Test Guideline 203Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 hToxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 72 hToxicity to algae/aquatic::EC50 (Skeletonema costatum (marine diatom)): > 10.000 mg/l Exposure time: 72 hToxicity to microorganisms::EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Propyl 3,4,5-trihydroxybenzoate: Toxicity to daphnia and other aquatic invertebrates::Toxicity to daphnia and other aquatic invertebrates::Toxicity to algae/aquatic plants::EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 3 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants::EC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201McFactor (Acute aquatic to					Exposure time: 3	
aquatic invertebrates (Chron- ic toxicity)Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211Titanium dioxide::LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 hToxicity to algae/aquatic plants:EC50 (Skeletonema costatum (marine diatom)): > 10.000 mg/l Exposure time: 72 hToxicity to microorganisms:EC50 (Skeletonema costatum (marine diatom)): > 10.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Propyl 3,4,5-trihydroxybenzoate:CS0 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Toxicity to algae/aquatic plants:EC50 (Paphnia magna (Water flea)): 19,06 mg/l Exposure time: 3 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:EC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201Toxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201Method: OECD Test Guideline 201Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1			v to fish (Chronic tox-	:	Exposure time: 33 Species: Pimepha	ales promelas (fathead minnow)
Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l 		aquatic	invertebrates (Chron-	:	Exposure time: 21 Species: Daphnia	magna (Water flea)
Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l 		Titaniu	m dioxide:			
aquatic invertebratesExposure time: 48 hToxicity to algae/aquatic plants:EC50 (Skeletonema costatum (marine diatom)): > 10.000 mg/l Exposure time: 72 hToxicity to microorganisms:EC50 : > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Propyl 3,4,5-trihydroxybenzoate: Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201C10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1				:	Exposure time: 96	3 h
plantsExposure time: 72 hToxicity to microorganisms:EC50 : > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209Propyl 3,4,5-trihydroxybenzoate: Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:EC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1				:		
Exposure time: 3 h Method: OECD Test Guideline 209Propyl 3,4,5-trihydroxybenzoate:Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1			v to algae/aquatic	:		
Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1		Toxicity	to microorganisms	:	Exposure time: 3	ĥ
Toxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 19,06 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,37 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):1		Propyl	3.4.5-trihvdroxvbenz	oate	9:	
plantsmg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201EC10 (Pseudokirchneriella subcapitata (green algae)): 0,17 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201M-Factor (Acute aquatic tox- icity):		Toxicity	to daphnia and other		EC50 (Daphnia m Exposure time: 48 Test substance: N	3 h Ieutralised product
mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201 M-Factor (Acute aquatic tox- : 1 icity)			v to algae/aquatic	:	mg/l Exposure time: 72 Test substance: N	2 h leutralised product
icity)					mg/l Exposure time: 72 Test substance: N	2 h leutralised product
Toxicity to microorganisms : EC50 : 636 mg/l			or (Acute aquatic tox-	:	1	
		Toxicity	to microorganisms	:	EC50 : 636 mg/l	

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		Exposure time: 3 h Method: OECD Test Guideline 209	
Cellul	ose:		
	y to fish	<ul> <li>LC50 (Oryzias latipes (Japanese medaka)): &gt; 100 mg/ Exposure time: 48 h Remarks: Based on data from similar materials</li> </ul>	/1
12.2 Persis	stence and degrada	ility	
Comp	onents:		
Sitagli	iptin:		
-	gradability	<ul> <li>Result: not rapidly degradable</li> <li>Biodegradation: 39,7 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 314</li> </ul>	
Stabilit	ty in water	: pH: 7 Hydrolysis: 50 %(401 d) Method: OECD Test Guideline 111	
Propy	I 3,4,5-trihydroxybe	zoate:	
Biodeç	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 49,4 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> </ul>	
Cellul	ose:		
	gradability	: Result: Readily biodegradable.	
12.3 Bioac	cumulative potentia		
Comp	onents:		
Sitagli	iptin:		
Partitic	on coefficient: n- ol/water	: log Pow: -0,03	
Propy	l 3,4,5-trihydroxybe	zoate:	
	on coefficient: n- ol/water	: log Pow: 1,8 Remarks: Calculation	
12.4 Mobili	ity in soil		
<u>Comp</u>	onents:		
Sitagli	iptin:		
Distrib	ution among environ I compartments	: log Koc: 4,37	
		18/22	

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### 12.5 Results of PBT and vPvB assessment

Not relevant

#### 12.6 Other adverse effects

No data available

### **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
14 4 Packing group		

14.4 Packing group

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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	(Cargo)	: Not regulated as a dangerous good		
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good		
14.5 Envir	onmental hazards			
Not regulated as a dangerous good				
14.6 Special precautions for user				
Not ap	plicable			
14.7 Trans	port in bulk accordin	g 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

KKDIK (30105 (Bis)) - Restrictions on the manufacture, :	Not applicable
placing on the market and use of certain dangerous	
substances, mixtures and articles (Annex 17)	
Regulation on Persistent Organic Pollutants (Number :	Not applicable
30595 and subsequent amendments published)	
Regulation on prevention of major industrial accidents. Reg	number 30702
Not applicable	

#### Other regulations:

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published.

Regulation on Dust Control (No: 28812, 2013). Occupational Dust Exposure Limit Values (Annex 1)

#### 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

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			lines. The SDS has bee tact email: sds@ 706 1307; Certifio	the body of this document by two vertical en prepared by: Name: Gökhan Ardıç; Con- chemleg.com; Telephone number: +90 216 cate Number: Lonca KDU 34 / 2020.08; Cer- September 2020; Valid Until: 22 September
Full te	ext of H-Statements			
H302		:	Harmful if swallow	wed.
H317		:	May cause an all	ergic skin reaction.
H318		:	Causes serious e	
H319		:	Causes serious e	
H351		:	Suspected of cau	ising cancer if inhaled.
H400		:	Very toxic to aqua	atic life.
H411		:	Toxic to aquatic I	ife with long lasting effects.

# The Turkish SDS has been prepared according to the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures No. 29204.

#### Full text of other abbreviations

Acute Tox. Aquatic Acute	:	Acute toxicity Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
	:	
Eye Dam.	•	Serious eye damage
Eye Irrit.		Eye irritation
Skin Sens.	:	Skin sensitisation
TR OEL DU	:	Türkiye. Regulation on Dust Control. Occupational Dust Expo-
		sure Limit Values (Annex 1)
TR OEL DU / ZOAD/TWA	:	Time Weighted Average Value

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

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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		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

#### Classification of the mixture:

Eye Irrit. 2 H319

Classification procedure:

Calculation method

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.

TR / EN