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# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Sitagliptin / Metformin Extended Release Formulation		
Manufacturer or supplier's de Company	eta :	ils MSD		
Address	:	199 Wenhai North Road HEDA, Hangzhou - Zhejiang Province - CHINA 310018		
Telephone	:	908-740-4000		
Emergency telephone number		86-571-87268110		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Pharmaceutical Not applicable		

# 2. HAZARDS IDENTIFICATION

Emergency Overview		
Appearance Colour Odour	:	powder blue green No data available
Harmful if swallowed.		
GHS Classification Acute toxicity (Oral)	:	Category 4
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed.
Precautionary statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling.



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P270 Do not eat, drink or smoke when using this product.

#### **Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

#### Disposal:

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

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Harmful if swallowed.

### **Environmental hazards**

Not classified based on available information.

#### Other hazards which do not result in classification

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
metformin hydrochloride	1115-70-4	>= 50 -< 70
Cellulose	9004-34-6	>= 10 -< 20
Sitagliptin	654671-77-9	>= 2.5 -< 10
Kaolin	1332-58-7	>= 1 -< 10
Titanium dioxide	13463-67-7	>= 0.1 -< 1

### 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical ac vice immediately. When symptoms persist or in all cases of doubt seek medic advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
In case of skin contact	Wash with water and soap. Get medical attention if symptoms occur.	
In case of eye contact	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.	



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lf swa	llowed	:	so by medical pe Get medical atte Rinse mouth tho	
	important symptoms ffects, both acute and ed	:	Harmful if swallc Contact with dus the skin.	
Prote	Protection of first-aiders		First Aid respond and use the reco	ders should pay attention to self-protection, pommended personal protective equipment ial for exposure exists (see section 8).
Notes	to physician	:		tically and supportively.
5. FIREFIC	GHTING MEASURES			
Suital	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide ( Dry chemical	
Unsui media	table extinguishing	:	None known.	
Speci fightir	fic hazards during fire- Ig	:	concentrations, a potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. hbustion products may be a hazard to health.
Hazaı ucts	rdous combustion prod-	:	Carbon oxides Metal oxides Nitrogen oxides Silicon oxides	(NOx)
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to de
•	al protective equipment efighters	:	In the event of fi	re, wear self-contained breathing apparatus. otective equipment.

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.



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			Local authorities s cannot be contain	should be advised if significant spillages ed.	
	Methods and materials for containment and 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 certain local or national requirements.</li> </ul>		
7. HAND	DLING AND STORAGE				
Hai	ndling				
Teo	chnical measures	:	causing an explose Provide adequate	precautions, such as electrical grounding	
Adv	al/Total ventilation vice on safe handling bidance of contact	<ul> <li>and bonding, or inert atmospheres.</li> <li>Use only with adequate ventilation.</li> <li>Do not breathe dust.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposur sessment</li> <li>Minimize dust generation and accumulation.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release environment.</li> <li>Oxidizing agents</li> </ul>		quate ventilation. Ist. In eyes. For repeated contact with skin. ghly after handling. Ance with good industrial hygiene and safety in the results of the workplace exposure as- meration and accumulation. The results of the workplace exposure as- meration and accumulation. The accumulation accumulation. The accumulation accumulation. The accumulation accumulation. The accumulation accumulation accumulation. The accumulation accumulation accumulation. The accumulation accumulation accumulation. The accumulation accumulation accumulation accumulation. The accumulation accumulation accumulation accumulation accumulation. The accumulation	
	rage	-			
	nditions for safe storage	:		abelled containers.	
Mat	terials to avoid	:		ce with the particular national regulations. the following product types: gents	
Pac	ckaging material	:	Unsuitable materi	al: None known.	

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	o oonn or paramo			
Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
metformin hydrochloride	1115-70-4	TWA	1 mg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	PC-TWA	10 mg/m3	CN OEL
		TWA	10 mg/m3	ACGIH
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Kaolin	1332-58-7	TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
Titanium dioxide	13463-67-7	PC-TWA (Total dust)	8 mg/m3	CN OEL
	Further inform	ation: G2B - Pos	sibly carcinogenic to	humans
		TWA (Res-	2.5 mg/m3	ACGIH
		pirable par-	(Titanium dioxide)	
		ticulate mat-		
		ter)		

### Components with workplace control parameters

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

### Titanium dioxide

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	
Respiratory 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
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.
Skin and body protection : Hand protection	Work uniform or laboratory coat.
Material :	Chemical-resistant gloves



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Hygier	ne measures	eye flushing sys ing place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	blue green
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
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)	:	dling or other means. No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit	:	u u u u u u u u u u u u u u u u u u u
Upper explosion limit / Upper		No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	No data available No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	:	No data available No data available No data available
Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapour pressure	:	No data available No data available No data available Not applicable



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Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties		The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	No data available

### **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 Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

### **11. TOXICOLOGICAL INFORMATION**

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
<b>Acute toxicity</b> Harmful if swallowed.	
Product: Acute oral toxicity	: Acute toxicity estimate: 1,588 mg/kg Method: Calculation method

**Components:** 



inhala-

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metformin hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 1,000 mg/kg
		LD50 (Mouse): 1,450 - 3,500 mg/kg
		LD50 (Monkey): 463 mg/kg
		LD50 (Rabbit): 350 mg/kg
		LD50 (Guinea pig): 500 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 Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Sitagliptin:		
Acute oral toxicity	:	LD50 (Rat): > 3,000 mg/kg
		LD50 (Mouse): 3,000 mg/kg
Kaolin:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC50 (Rat): > 2.07 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute tion toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials
Titanium dioxide: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg



rsion	Revision Date: 2023/09/30		S Number: 096-00023	Date of last issue: 2023/04/04 Date of first issue: 2014/11/07
Acute	inhalation toxicity	:	LC50 (Rat): > 0 Exposure time Test atmosphe Assessment: T tion toxicity	: 4 h
-	corrosion/irritation assified based on ava	ailable	information.	
Comp	oonents:			
metfo	ormin hydrochloride	:		
Speci Resul		:	Rabbit Mild skin irritat	ion
Sitag	liptin:			
Speci		:	Rabbit	
Metho Resul		:	Draize Test No skin irritatio	on
Kaoli	n:			
Speci		:	Rabbit	
Metho Resul		:	OECD Test Gu No skin irritatio	
Rema		:		from similar materials
Titani	um dioxide:			
Speci Resul		:	Rabbit No skin irritatio	n
	us eye damage/eye assified based on ava			
	oonents:			
metfo	ormin hydrochloride	:		
Speci Resul	es	:	Rabbit Mild eye irritati	on
		•	wind eye intidu	
Sitag	-		Dahk!	
Speci Resul		:	: Rabbit : Irritating to eyes.	
Metho		:	Draize Test	



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# Kaolin:

Result	:	Rabbit No eye irritation Based on data from similar materials
Remarks	:	Based on data from similar materials

### Titanium dioxide:

Species	:	Rabbit
Result	:	No eye irritation

### Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.

### Components:

### Sitagliptin:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Not a skin sensitizer.

### Titanium dioxide:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Result	:	negative

### Germ cell mutagenicity

Not classified based on available information.

# Components:

### metformin hydrochloride:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: in vitro assay Test system: mouse lymphoma cells Result: negative
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative



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Geno	otoxicity in vivo	: Test Type: M Species: Mo Application F Result: nega	Route: Oral
Cellu	llose:		
Geno	otoxicity in vitro	: Test Type: B Result: nega	Bacterial reverse mutation assay (AMES) Itive
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test itive
Genc	otoxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
Sitag	gliptin:		
Gend	otoxicity in vitro	: Test Type: A Result: nega	
			Chromosome aberration test in vitro : Chinese hamster ovary cells itive
		thesis in mar	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) : rat hepatocytes tive
Genc	otoxicity in vivo	: Test Type: M Species: Mo Application F Result: nega	Route: Oral
Titan	ium dioxide:		
Geno	otoxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) tive
Genc	otoxicity in vivo	: Test Type: Ir Species: Mo Result: nega	

# Carcinogenicity

Not classified based on available information.



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## Components:

metformin hydrochloride:	
Species : Exposure time : Dose : Result :	Mouse 91 weeks 1500 mg/kg body weight negative
Species:Application Route:Exposure time:Dose:Result:	Rat, male Oral 104 weeks 900 mg/kg body weight negative
Species:Application Route:Exposure time:LOAEL:Result:Target Organs:Remarks:	Rat, female Oral 104 weeks 900 mg/kg body weight negative Uterus (including cervix) The mechanism or mode of action may not be relevant in hu- mans.
Cellulose:	
	Rat Ingestion 72 weeks negative
Sitagliptin:	
Species:Application Route:Exposure time:Result:	Mouse Oral 2 Years negative
Species:Application Route:Exposure time:Result:Target Organs:Remarks:	Rat oral (drinking water) 2 Years positive Liver Significant toxicity observed in testing
Carcinogenicity - Assess- : ment	Weight of evidence does not support classification as a car- cinogen
Titanium dioxide:	
Species : Application Route :	Rat inhalation (dust/mist/fume)



ersion 1	Revision Date: 2023/09/30	SDS Number: 29096-00023	Date of last issue: 2023/04/04 Date of first issue: 2014/11/07		
Expos Metho Resu Rema	lt	mans. This substanc	uideline 453 m or mode of action may not be relevant in hu e(s) is not bioavailable and therefore does not dust inhalation hazard.		
Carci ment	nogenicity - Assess-	: Limited evider animals.	nce of carcinogenicity in inhalation studies with		
Not c	oductive toxicity lassified based on ava ponents:	ailable information.			
metfo	ormin hydrochloride	:			
	ts on fertility	: Test Type: Fe Species: Rat Application Ro	oute: Oral EL: 600 mg/kg body weight		
Effect ment	ts on foetal develop-				
		Species: Rabb Application Ro Embryo-foetal			
Cellu	lose:				
	ts on fertility	: Test Type: On Species: Rat Application Ro Result: negativ			
Effect ment	ts on foetal develop-	Species: Rat Application Ro	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative		
Sitao	liptin:				



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Effec ment	ts on foetal develop-	Result: Animal : Test Type: Em Species: Rat Application Ro Teratogenicity: Result: Embryo spring were de Test Type: Em Species: Rabb Teratogenicity:	EL Parent: 1,000 mg/kg body weight testing did not show any effects on fertility. bryo-foetal development ute: Oral LOAEL: 250 mg/kg body weight btoxic effects and adverse effects on the off- tected., No teratogenic effects bryo-foetal development
	<b>Γ - single exposure</b> lassified based on avai	ilable information.	
STO	Г - repeated exposure	•	
Not c	lassified based on avai	ilable information.	
Repe	ated dose toxicity		
Com	ponents:		
metfo	ormin hydrochloride:		
	EL cation Route sure time	: Rat : 125 mg/kg : Oral : 1 year : No significant a	adverse effects were reported
	EL cation Route sure time	: Rabbit : 100 mg/kg : Oral : 1 Year	

Remarks:No significant adverse effects were reportedSpecies:DogNOAEL:50 mg/kgApplication Route:SubcutaneousExposure time:2 yearRemarks:No significant adverse effects were reported

# Cellulose:

Species	:	Rat
NOAEL	:	>= 9,000 mg/kg



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	cation Route sure time	: Ingestion : 90 Days	
Spec NOA LOAI Appli Expo	EL EL cation Route sure time et Organs	: Mouse : 500 mg/kg : 1,000 mg/kg : Oral : > 2 yr : Kidney : Rat	
NOA LOAI Appli Expo	EL	: 500 mg/kg : 1,000 mg/kg : Oral : 14 Weeks : Liver, Kidney,	Heart, Teeth
Expo Targe	EL EL cation Route sure time et Organs otoms	<ul> <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 balance</li> <li>The mechanis mans.</li> </ul>	
Expo Targe	EL EL cation Route sure time et Organs otoms	: Loss of balance	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
Spec NOA		: Rat : 24,000 mg/kg : Ingestion	



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Expo	sure time	:	28 Days		
		:	Rat 10 mg/m3 inhalation (dust/n 2 yr	nist/fume)	
-	r <b>ation toxicity</b> lassified based on availa	able	information.		
Expe	rience with human exp	posi	ıre		
Com	ponents:				
metfo	ormin hydrochloride:				
	contact	:	Remarks: May irr		
Eye c Inges	contact tion	:	Remarks: May irritate eyes. Symptoms: Diarrhoea, Nausea, Vomiting, Gastrointestinal discomfort, flatulence, asthenia, Fatigue, Headache		
Sitag	liptin:				
Inhala		:	Headache	r respiratory tract infection, pharyngitis,	
Inges	tion	:		r respiratory tract infection, nasopharyngitis, ea, Abdominal pain, Diarrhoea	
12. ECOL	OGICAL INFORMATIO	N			
Ecote	oxicity				
_	ponents:				
	ormin hydrochloride:				
	ity to algae/aquatic	:	mg/l Exposure time: 7	chneriella subcapitata (green algae)): > 100 2 h rest Guideline 201	
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 100 2 h est Guideline 201	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 3	es promelas (fathead minnow)): 10 mg/l 3 d est Guideline 210	

Toxicity to daphnia and other<br/>aquatic invertebrates (Chron-<br/>ic toxicity)NOEC (Daphnia magna (Water flea)): 40 mg/l<br/>Exposure time: 21 d<br/>Method: OECD Test Guideline 211



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	Toxicity	v to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 l Test Type: Respir	n
				Method: OECD Te	
	Cellulo Toxicity		:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l h on data from similar materials
	Sitaglip	otin:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 96 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 96 Method: OECD Te	
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
		invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 l Test Type: Respir Method: OECD Te	ation inhibition
				NOEC: 150 mg/l Exposure time: 3 l Test Type: Respir	

Kaolin:



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	Toxicity icity)	to fish (Chronic tox-	:	NOELR (Oncorhy Exposure time: 30	rnchus mykiss (rainbow trout)): > 100 mg/l ) d
-	Titaniu	m dioxide:			
-	Toxicity	to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 6 h est Guideline 203
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): > 100 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (Skeletone Exposure time: 72	ma costatum (marine diatom)): > 10,000 mg/l 2 h
-	Toxicity	to microorganisms	:	Exposure time: 3	
I	Persistence and degradability <u>Components:</u>				
<u>(</u>					
		<b>min hydrochloride:</b> adability	:	Result: rapidly de Biodegradation: Exposure time: 2	50 %
	Cellulo	se:			
ł	Biodegr	adability	:	Result: Readily b	odegradable.
:	Sitaglip	otin:			
I	Biodegr	radability	:	Result: not rapidly Biodegradation: Exposure time: 20 Method: OECD T	39.7 %
	Stability	in water	:	Hydrolysis: 50 %( Method: OECD T	401 d) est Guideline 111
I	Bioacc	umulative potential			
<u>(</u>	Compo	onents:			
I		<b>min hydrochloride:</b> n coefficient: n- /water	:	log Pow: -2	



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Sitag Portiti	liptin: on coefficient: n-		og Pow: -0.03	
	ol/water		0g F0w0.03	
Mobil	ity in soil			
Comp	oonents:			
metfo	ormin hydrochloride:			
Distribution among environ- mental compartments			og Koc: 4.3 Method: OECD 1	Test Guideline 106
	liptin: oution among environ- al compartments	:	og Koc: 4.37	
••	<b>adverse effects</b> Ita available			
13. DISPO	SAL CONSIDERATIO	NS		
Dispo	osal methods			
-	e from residues			f waste into sewer.
Conta	minated packaging	:	Empty containers	cordance with local regulations. s should be taken to an approved waste han- ccling or disposal. specified: Dispose of as unused product.

# International Regulations

# UNRTDG

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



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Packing instruction (passen- ger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

#### EmS Code Not applicable : Marine pollutant Not applicable :

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

Not applicable for product as supplied.

### **National Regulations**

#### GB 6944/12268

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

Special precautions for user

Not applicable

### **15. REGULATORY INFORMATION**

# National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

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

#### **16. OTHER INFORMATION**

Revision Date	:	2023/09/30

### **Further information**



Ver 2.1	sion	Revision Date: 2023/09/30		DS Number: 096-00023	Date of last issue: 2023/04/04 Date of first issue: 2014/11/07
		es of key data used to e the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	Date fo	ormat	:	yyyy/mm/dd	
	Full text of other abbreviati		ons		
	ACGIH CN OE		:	Occupational exp	eshold Limit Values (TLV) osure limits for hazardous agents in the nical hazardous agents.
		I / TWA EL / PC-TWA	:	8-hour, time-weig Permissible conc	hted average entration - 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

### Disclaimer

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



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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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