

according to GB/T 16483 and GB/T 17519

Carbidopa / Levodopa Formulation

Versic 4.11		evision Date: 020/10/10		S Number: 13-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23		
1. PR	1. PRODUCT AND COMPANY IDENTIFICATION						
P	Product name		:	Carbidopa / Levodopa Formulation			
N	Manufacturer or supplier's details						
C	Company		:	Organon & Co.			
A	Address		:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302			
Т	Telephone		:	551-430-6000			
E	Emergency telephone number		r:	215-631-6999			
E	E-mail address		:	EHSSTEWARD	⊉organon.com		
R	Recommended use of the chemical and restrictions on use						

: Pharmaceutical

2. HAZARDS IDENTIFICATION

Recommended use

Emergency Overview

Appearance	: powder
Colour	: No data available
Odour	: odourless
	Suspected of damaging the unborn child. Causes damage to organs epeated exposure. Harmful to aquatic life with long lasting effects.

GHS Classification

Acute toxicity (Oral)	:	Category 4
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements Hazard pictograms	:	

:

Signal word



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Hazar	d statements	H372 Causes of exposure.	if swallowed. ted of damaging the unborn child. damage to organs through prolonged or repeated to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not ha and understood P260 Do not bi P264 Wash ski P270 Do not ea P273 Avoid rel	reathe dust. in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doct	P330 IF SWALLOWED: Call a POISON or if you feel unwell. Rinse mouth. F exposed or concerned: Get medical advice/
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
-	cal and chemical haz assified based on avail		
Harmf	n hazards ful if swallowed. Suspec gh prolonged or repeate		unborn child. Causes damage to organs

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

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)
Levodopa	59-92-7	>= 70 -< 90
Carbidopa	38821-49-7	>= 10 -< 20
Cellulose	9004-34-6	>= 1 -< 10

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Star	ch		9005-25-8	>= 1 -< 10			
Мад	gnesium stearate		557-04-0	>= 1 -< 10			
4. FIRST	AID MEASURES						
Ger	neral advice	vice imme	diately.	el unwell, seek medical ad- ases of doubt seek medical			
If in	haled		remove to fresh air.				
In case of skin contact		: In case of of water. Remove co Get medica Wash cloth	Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.				
In c	ase of eye contact	: If in eyes,	Thoroughly clean shoes before reuse. If in eyes, rinse well with water. Get medical attention if irritation develops and persists.				
lf sv	vallowed	: If swallowe Get medica Rinse mou	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.				
Most important symptoms and effects, both acute and delayed		: Harmful if s Suspected Causes da exposure. Contact wi the skin.	swallowed. of damaging the unborn mage to organs through th dust can cause mech	n child. n prolonged or repeated anical irritation or drying of			
Prot	ection of first-aiders	: First Aid re and use th	Dust contact with the eyes can lead to mechanical irritation. 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).				
Note	es to physician		Treat symptomatically and supportively.				
5. FIREF	IGHTING MEASURES						
	able extinguishing media uitable extinguishing		sistant foam oxide (CO2) cal				
med				spersed in air in sufficient			
fight	-	concentrat potential d	ions, and in the presenc ust explosion hazard.	may be a hazard to health.			
Haz ucts	ardous combustion prod-	: Carbon ox Metal oxide					
Spe	cific extinguishing meth-	: Use exting	uishing measures that a	are appropriate to local cir-			



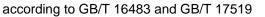


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ods Special protective equipment for firefighters		:	cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area. In the event of fire, wear self-contained breathing apparatus Use personal protective equipment.		
6. ACCII	DENTAL RELEASE MEAS	SUF	RES		
tive	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).		
Env	Environmental precautions		Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages	
	Methods and materials for containment and cleaning up		tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national to posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces	

7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
	Use only with adequate ventilation.
Advice on safe handling	Do not breathe dust.
	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.
	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.
	Roop away nom noat and boarboo or ignition.





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Avoid	dance of contact	 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. Oxidizing agents 		
Stor	age			
Conditions for safe storage		Store locke	perly labelled containers. d up. cordance with the particular national regulations.	
Materials to avoid		: Do not store	e with the following product types: izing agents	
Packaging material		: Unsuitable	material: None known.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Levodopa	59-92-7	TWA	500 µg/m3 (OEB 2)	Internal
Carbidopa	38821-49-7	TWA	2,000 μg/m3 (OEB 1)	Internal
Cellulose	9004-34-6	PC-TWA	10 mg/m3	CN OEL
		TWA	10 mg/m3	ACGIH
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
Magnesium stearate	557-04-0	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH

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 equipmen	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
51	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.





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Hand	and body protection protection aterial	: Work uniform : Chemical-resi	or laboratory coat. stant gloves
Hygie	ne measures	eye flushing s ing place. When using d Wash contam The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	No data available
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (solid, gas) Flammability (liquids)	:	
	:	dling or other means.
Flammability (liquids) Upper explosion limit / Upper	-	dling or other means. No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower	:	dling or other means. No data available No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit	:	dling or other means. No data available No data available No data available
Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapour pressure	:	dling or other means. No data available No data available No data available No data available

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Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	 No data available No data available No data available 	2
Decomposition temperature	: No data available	9
Viscosity Viscosity, dynamic Viscosity, kinematic	: No data available : No data available	
Explosive properties	: Not explosive	
Oxidizing properties Molecular weight	: The substance of : No data available	r mixture is not classified as oxidizing.
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	:	No hazardous decomposition products are known.

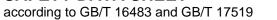
11. TOXICOLOGICAL INFORMATION

Exposure routes	-	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
<u>Product:</u> Acute oral toxicity		Acute toxicity estimate: 1,952 mg/kg Method: Calculation method

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rsion 1	Revision Date: 2020/10/10		Number: 3-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
<u>Com</u>	oonents:			
Levo	dopa:			
	oral toxicity	: L[D50 (Rat): 1,	780 mg/kg
		L	D50 (Mouse)): 2,363 mg/kg
Carbi	dopa:			
Acute	oral toxicity	: L[D50 (Rat): 4,	,810 mg/kg
		L	D50 (Mouse)): 1,750 mg/kg
Cellu	lose:			
Acute	oral toxicity	: LI	050 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	E	C50 (Rat): > xposure time est atmosphe	
Acute	e dermal toxicity	: L[050 (Rabbit)	: > 2,000 mg/kg
Starc	h:			
Acute	oral toxicity	: L[050 (Rat): >	5,000 mg/kg
Acute	e dermal toxicity	: L(050 (Rabbit)	: > 2,000 mg/kg
Magn	esium stearate:			
Acute	oral toxicity	M A: ic	ethod: OEC ssessment:	2,000 mg/kg D Test Guideline 423 The substance or mixture has no acute oral to sed on data from similar materials
Acute	e dermal toxicity			: > 2,000 mg/kg sed on data from similar materials
Skin	corrosion/irritation			
Not cl	assified based on av	ailable info	ormation.	
<u>Com</u>	<u>ponents:</u>			
	dopa:			
Speci Resul			abbit o skin irritati	on
Magn	esium stearate:			
Speci			abbit	
Resul Rema			o skin irritati ased on data	on a from similar materials
. come		. D		





sion 1	Revision Date: 2020/10/10	SDS Number: 50113-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
Serio	us eye damage/eye	irritation	
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
Carbi	dopa:		
Speci	-	: Rabbit	
Resul		: Mild eye irritation	on
Starc	h:		
Speci	es	: Rabbit	
Resul		: No eye irritation	n
Magn	esium stearate:		
Speci		: Rabbit	
Resul		: No eye irritation	
Rema	urks	: Based on data	from similar materials
Respi	iratory or skin sensi	itisation	
Skin s	sensitisation		
Not cl	assified based on ava	ailable information.	
Deen	iratory sensitisation		
Resp			
-	-		
Not cl	assified based on ava		
Not cl	assified based on ava <u> ponents:</u>		
Not cl Comp Levoo	assified based on ava ponents: dopa:	ailable information.	
Not cl	assified based on ava ponents: dopa: es		sitizer.
Not cl Comp Levou Speci Resul	assified based on ava ponents: dopa: es	ailable information. : Guinea pig	sitizer.
Not cl Comp Levou Speci Resul	assified based on ava <u>ponents:</u> dopa: es t dopa:	ailable information. : Guinea pig	
Not cl Comp Levod Specia Resul Carbi	assified based on ava <u>ponents:</u> dopa: es t dopa: urks	ailable information. : Guinea pig : Not a skin sens	
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc	assified based on ava <u>conents:</u> dopa: t dopa: urks h:	ailable information. : Guinea pig : Not a skin sens : No data availal	ble
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T	assified based on ava <u>conents:</u> dopa: t dopa: urks h: Fype	ailable information. : Guinea pig : Not a skin sens	ble
Not cl <u>Comr</u> Levod Speci Resul Carbi Rema Starc Test T Expos Speci	assified based on ava <u>ponents:</u> dopa: es t dopa: urks h: Fype sure routes es	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig	ble
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T Expos	assified based on ava <u>ponents:</u> dopa: es t dopa: urks h: Fype sure routes es	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact	ble
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T Expos Speci Resul	assified based on ava <u>ponents:</u> dopa: es t dopa: urks h: Fype sure routes es	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig	ble
Not cl <u>Comp</u> Levod Specia Resul Carbi Rema Starc Test T Expos Specia Resul Magn Test T	assified based on ava <u>conents:</u> dopa: es t dopa: urks h: Type sure routes es t t esium stearate: Type	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig	ble Test
Not cl <u>Comp</u> Levod Specia Resul Carbi Rema Starc Test 1 Expos Specia Resul Magn Test 1 Expos	assified based on ava <u>conents:</u> dopa: es t dopa: urks h: Type sure routes es t t esium stearate: Type sure routes	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig : negative : Maximisation T : Skin contact	ble Test
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T Expos Speci Resul Magn Test T Expos Speci	assified based on ava <u>conents:</u> dopa: es t dopa: urks h: Fype sure routes es t esium stearate: Fype sure routes es	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig : negative : Maximisation T : Skin contact : Guinea pig	ole ēst
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T Expos Speci Resul Magn Test T Expos Speci Method	assified based on ava <u>conents:</u> dopa: es t dopa: urks h: Type sure routes es t esium stearate: Type sure routes es od	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig : negative : Maximisation T : Skin contact : Guinea pig : OECD Test Gu	ole ēst
Not cl <u>Comp</u> Levoo Speci Resul Carbi Rema Starc Test T Expos Speci Resul Magn Test T Expos Speci	assified based on ava <u>conents:</u> dopa: es t dopa: urks h: Fype sure routes es t esium stearate: Fype sure routes es t fype sure routes es t	ailable information. : Guinea pig : Not a skin sens : No data availal : Maximisation T : Skin contact : Guinea pig : negative : Maximisation T : Skin contact : Guinea pig : OECD Test Gu : negative	ole ēst

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ersion I 1	Revision Date: 2020/10/10	SDS Number: 50113-00016	Date of last issue: 2020/03/23 Date of first issue: 2015/01/23
	cell mutagenicity assified based on ava	ailable information.	
Comp	onents:		
Levod	opa:		
Genoto	oxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
			nromosomal aberration mouse lymphoma cells ocal
			icronucleus test Chinese hamster lung cells /e
			ster chromatid exchange assay Chinese hamster lung cells /e
Carbid	lopa:		
Genoto	oxicity in vitro	: Test Type: Ba Result: positiv	acterial reverse mutation assay (AMES) /e
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test /e
Genoto	oxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	oute: Oral
Cellulo	ose:		
Genoto	oxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Genoto	oxicity in vivo	cytogenetic a Species: Mou	se oute: Ingestion
Starch			
-	oxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES)

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Geno	Genotoxicity in vitro		Result: negative	tro mammalian cell gene mutation test e d on data from similar materials
			Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
			Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials
	nogenicity lassified based on avai	ilable	information.	
Com	oonents:			
Levo	dopa:			
	cation Route sure time	::	Rat Oral 2 Years negative	
Carbi	idopa:			
	cation Route sure time	:	Rat Oral 96 weeks 135 mg/kg body negative	y weight
• •			-	
	es cation Route sure time	:	Rat Ingestion 72 weeks negative	
-	oductive toxicity ected of damaging the	unbo	rn child.	
<u>Com</u>	oonents:			
Levo	dopa:			
Effect	ts on fertility	:		
Effect ment	ts on foetal develop-	:	Test Type: Dev Species: Rabbi Application Rou	t

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			tal Toxicity: LOAEL: 125 mg/kg body weight Skeletal malformations, Visceral malformations ve
		Test Type: D Species: Rat Application R Development	
			use coute: Oral tal Toxicity: LOAEL: 500 mg/kg body weight ffects on foetal development
Repro sessm	ductive toxicity - As- nent	: Some eviden animal exper	ce of adverse effects on development, based or iments.
Carbi	dopa:		
Effects	s on fertility	Symptoms: R	
Effect: ment	s on foetal develop-		JSE
			bbit
Cellul	ose:		
Effects	s on fertility	Species: Rat	oute: Ingestion
Effects ment	s on foetal develop-	Species: Rat	coute: Ingestion
Magn	esium stearate:		
Effects	s on fertility	: Test Type: C	ombined repeated dose toxicity study with the

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		S A N R	pecies: Rat pplication Route lethod: OECD T esult: negative	elopmental toxicity screening test e: Ingestion est Guideline 422 on data from similar materials
Effect ment	s on foetal develop-	S A R	pecies: Rat pplication Route esult: negative	yo-foetal development e: Ingestion on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Levodopa:

Exposure routes	: Oral	
Target Organs	: Central nervous system	
Assessment	: Causes damage to organs through prolonged or	repeated
	exposure.	

Repeated dose toxicity

Components:

Levodopa:

Species LOAEL Application Route Exposure time Target Organs Symptoms	 Rat 100 mg/kg Oral 106 Weeks Central nervous system Salivation
Species LOAEL Application Route Exposure time Target Organs	 Monkey 100 mg/kg Oral 22 Weeks Central nervous system
Carbidopa:	
Species LOAEL Application Route Exposure time Remarks	 Rat 25 mg/kg Oral 96 Weeks No significant adverse effects were reported
O	NA-mlan.

Species

: Monkey

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	cation Route sure time	: 135 mg/kg : Oral : 1 yr : No significant	adverse effects were reported
	EL EL cation Route sure time	: Dog : 5 mg/kg : 15 mg/kg : Oral : 238 d : Diarrhoea, Vo	omiting, Tremors
	es	: Rat : >= 9,000 mg/ł : Ingestion : 90 Days	<g< td=""></g<>
	es EL cation Route sure time	: Rat : >= 2,000 mg/l : Skin contact : 28 Days : OECD Test G	
Speci NOAE Applic	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data	a from similar materials
Not cl	ation toxicity assified based on ava rience with human e		
-	oonents:		
Levo Inges	dopa:	: Symptoms: N	ausea, central nervous system effects, Drowsi-
-	dopa:	ness	voluntary movement

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40.500				
12. ECO	LOGICAL INFORMATION	N		
Eco	toxicity			
<u>Cor</u>	nponents:			
Lev	odopa:			
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 16 mg/l 3 h
Car	bidopa:			
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Cell	ulose:			
Тох	icity to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials
Мас	gnesium stearate:			
-	icity to fish	:	Exposure time: 48 Method: DIN 384	
	icity to daphnia and other atic invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
Tox plar	icity to algae/aquatic its	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials
			mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
Тох	icity to microorganisms	:	Exposure time: 16	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction

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			Remarks: Base	ed on data from similar materials
Persi	stence and degradab	oility		
<u>Comp</u>	oonents:			
Cellul Biode	lose: gradability	:	Result: Readily	biodegradable.
-	esium stearate: gradability	:		degradable ed on data from similar materials
Bioac	cumulative potential	I		
<u>Comp</u>	oonents:			
	dopa: on coefficient: n- ol/water	:	log Pow: -2.39	
Partiti	esium stearate: on coefficient: n- ol/water	:	log Pow: > 4	
Mobil	ity in soil			
No da	ta available			
Other	adverse effects			
No da	ita available			

Disposal methods

Waste from residues Contaminated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

according to GB/T 16483 and GB/T 17519



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National Regulations

GB 6944/12268

Not regulated as a dangerous good

Special precautions for user Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

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

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

16. OTHER INFORMATION

Further information				
Sources of key data used to : compile the Safety Data Sheet	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/			
Date format :	yyyy/mm/dd			
Full text of other abbreviations				
ACGIH :	USA. ACGIH Threshold Limit Values (TLV)			
CN OEL :	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.			
	8-hour, time-weighted average			
CN OEL / PC-TWA :	Permissible concentration - 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 Con-



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centration 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; 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 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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