



Sitagliptin / Metformin Formulation

			SDS Number: 27095-00023	Date of last issue: 04/04/2023 Date of first issue: 10/31/2014
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SECTION 1. IDENTIFICATION

Product name	:	Sitagliptin / Metformin Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

Acute toxicity (Oral)	:	Category 4

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.

Precautionary Statements :

Prevention:

P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

Response:

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

Disposal:

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

Other hazards

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.



according to the Hazardous Products Regulations

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
metformin hydrochlo- ride		1115-70-4	>= 60 - < 80 *
Sitagliptin	No data availa- ble	654671-77-9	>= 5 - < 10 *
Cellulose	No data availa- ble	9004-34-6	>= 1 - < 5 *
Titanium dioxide	Titanic anhy- dride	13463-67-7	>= 0.1 - < 1 *

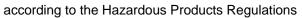
* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention 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.
If swallowed	:	
Most important symptoms	:	Harmful if swallowed.
and effects, both acute and delayed		Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Avoid generating dust; fine dust dispersed in air in sufficient





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	fighting			potential dust exp	nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
	Specific extinguishing meth- ods		:	cumstances and t Use water spray to	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
_	Special for fire-f	protective equipment	:		e, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6.	ACCIDENTAL RELE	ASE	E MEASURES	
	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environ	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	container for disper Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
		3
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
-		Do not swallow.
		Avoid contact with eyes.

according to the Hazardous Products Regulations



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	tions for safe storage ials to avoid	 Wash skin thoro Handle in accorn practice, based assessment Minimize dust ge Keep container Keep away from Take precaution Do not eat, drinh Take care to pre environment. Keep in properly Store in accorda 	d or repeated contact with skin. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure eneration and accumulation. closed when not in use. In heat and sources of ignition. hary measures against static discharges. k or smoke when using this product. event spills, waste and minimize release to the y labeled containers. ance with the particular national regulations. h the following product types:
		e en en grovitai En ig	

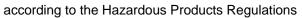
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
metformin hydrochloride	1115-70-4	TWA	1 mg/m3 (OEB 1)	Internal
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB 2)	Internal
Cellulose	9004-34-6	TWA	10 mg/m ³	CA AB OEL
		TWA (Total dust)	10 mg/m ³	CA BC OEL
		TWA (respir- able dust fraction)	3 mg/m ³	CA BC OEL
		TWAEV (to- tal dust)	10 mg/m³	CA QC OEL
		TWA	10 mg/m ³	ACGIH
Titanium dioxide	13463-67-7	TWA	10 mg/m ³	CA AB OEL
		TWA (Total dust)	10 mg/m ³	CA BC OEL
		TWA (respir- able dust fraction)	3 mg/m ³	CA BC OEL
		TWAEV (to- tal dust)	10 mg/m³	CA QC OEL
		TWA (Respirable particulate matter)	2.5 mg/m ³ (Titanium dioxide)	ACGIH

Ingredients with workplace control parameters

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

Titanium dioxide



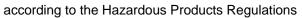


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Engineering measures		compound. All engineeri design and d	engineering controls to minimize exposure to ng controls should be implemented by facility operated in accordance with GMP principles to ucts, workers, and the environment.
Per	sonal protective equipn	nent	
I	piratory protection	exposure as	ocal exhaust ventilation is not available or sessment demonstrates exposures outside the ed guidelines, use respiratory protection. type
	nd protection Material	: Chemical-re	sistant gloves
Eye	protection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, or aerosols.	
	n and body protection liene measures	: If exposure t eye flushing working plac When using Wash contai The effective engineering appropriate industrial hys	n or laboratory coat. o chemical is likely during typical use, provide systems and safety showers close to the e. do not eat, drink or smoke. minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor 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,



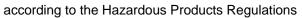


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				handling or other	means.
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	No data available	3

SECTION 10. STABILITY AND REACTIVITY

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



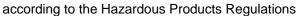


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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	s of	exposure
Acute toxicity Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,380 mg/kg Method: Calculation method
Components:		
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
Sitagliptin:		
Acute oral toxicity	:	LD50 (Rat): > 3,000 mg/kg
		LD50 (Mouse): 3,000 mg/kg
Cellulose:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Titanium dioxide:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity





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Skin corrosion/irritation

Not classified based on available information.

Components:

metformin hydrochloride:		
Species	:	Rabbit
Result	:	Mild skin irritation

Sitagliptin:

Species	:	Rabbit
Method	:	Draize Test
Result	:	No skin irritation

Titanium dioxide:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

metformin hydrochloride:

Species	:	Rabbit
Result	:	Mild eye irritation
		-
Sitagliptin:		

Sitagliptin:

Species	:	Rabbit
Result	:	Irritating to eyes.
Method	:	Draize Test

Titanium dioxide:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

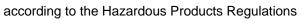
Respiratory sensitization

Not classified based on available information.

Components:

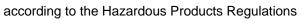
Sitagliptin:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse





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Met Res		:	OECD Test (Not a skin se	
Test		: : :	Local lymph Skin contact Mouse negative	node assay (LLNA)
	m cell mutagenicity classified based on ava	ailable	information.	
<u>Con</u>	nponents:			
	formin hydrochloride: otoxicity in vitro	:	Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			Test Type: in Test system: Result: nega	mouse lymphoma cells
				hromosomal aberration Human lymphocytes tive
Gen	otoxicity in vivo	:	Test Type: M Species: Mon Application F Result: nega	coute: Oral
Sita	gliptin:			
	otoxicity in vitro	:	Test Type: A Result: nega	
				hromosome aberration test in vitro Chinese hamster ovary cells tive
			thesis in mar	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes tive
Gen	otoxicity in vivo	:	Test Type: N Species: Mor Application R Result: nega	coute: Oral
Cell	ulose:			
	otoxicity in vitro	:	Test Type: B	acterial reverse mutation assay (AMES)





ersion .1	Revision Date: 09/29/2023	SDS Number: 27095-00023	Date of last issue: 04/04/2023 Date of first issue: 10/31/2014
		Result: negat	tive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test tive
Geno	toxicity in vivo	cytogenetic a Species: Mou	use coute: Ingestion
Titani	ium dioxide:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	: Test Type: In Species: Mou Result: negat	
	nogenicity assified based on ava	ailable information.	
Comp	oonents:		
metfo	ormin hydrochloride	:	
Speci Expos Dose Resul	sure time	: Mouse : 91 weeks : 1500 mg/kg b : negative	oody weight
	cation Route sure time	: Rat, male : Oral : 104 weeks : 900 mg/kg bo : negative	ody weight
Expos LOAE Resul	cation Route sure time :L t t Organs	 Rat, female Oral 104 weeks 900 mg/kg books negative Uterus (include The mechanistic mans. 	
Sitag	liptin:		
Speci		: Mouse	
	cation Route sure time	: Oral : 2 Years	
Resul		: negative	
Resul	t	. nogativo	

according to the Hazardous Products Regulations



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Expos Result Target Rema	t Organs	-	vater) city observed in testing ence does not support classification as a car-
	es ation Route ure time	: Rat : Ingestion : 72 weeks : negative	
Specie Applic	ation Route ure time d	mans. This substance	
Carcin ment	ogenicity - Assess-	: Limited evidend animals.	ce of carcinogenicity in inhalation studies with
Not cla	oductive toxicity assified based on availa conents:	ble information.	
metfo	rmin hydrochloride:		
	s on fertility	: Test Type: Fer Species: Rat Application Ro Fertility: NOAE Result: No effe	ute: Oral L: 600 mg/kg body weight
Effects	s on fetal development	Result: No tera Test Type: Em Species: Rabb Application Ro Embryo-fetal to	ute: Oral Toxicity: NOAEL: 600 mg/kg body weight togenic effects. bryo-fetal development it



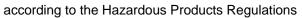


Version 5.1	Revision Date: 09/29/2023		OS Number: 095-00023	Date of last issue: 04/04/2023 Date of first issue: 10/31/2014
Sita	gliptin:			
-	cts on fertility	:	Species: Rat Application Rout Fertility: NOAEL	ity/early embryonic development e: Oral Parent: 1,000 mg/kg body weight esting did not show any effects on fertility.
Effec	cts on fetal development	:	Species: Rat Application Rout Teratogenicity: L Result: Embryoto offspring were de Test Type: Embr Species: Rabbit	OAEL: 250 mg/kg body weight oxic effects and adverse effects on the etected., No teratogenic effects. ryo-fetal development IOAEL: 125 mg/kg body weight
Colly	ulose:			
	cts on fertility	:	Test Type: One- Species: Rat Application Rout Result: negative	
Effec	cts on fetal development	:	Test Type: Fertil Species: Rat Application Rout Result: negative	
070	- · ·			
	T-single exposure classified based on availa	able	information	
	T-repeated exposure			
	classified based on availa	able	information.	
Repe	eated dose toxicity			
Com	ponents:			
metf	ormin hydrochloride:			
Spec NOA Appl	cies EL ication Route osure time		Rat 125 mg/kg Oral 1 year No significant ad	lverse effects were reported
	EL ication Route osure time	: : : :	-	lverse effects were reported
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	EL cation Route sure time	: Dog : 50 mg/kg : Subcutaned : 2 year : No significa	ous nt adverse effects were reported
Speci NOAE LOAE Applic Expos	EL	: Mouse : 500 mg/kg : 1,000 mg/kg : Oral : > 2 y : Kidney	g
Expo	EL	: Rat : 500 mg/kg : 1,000 mg/kg : Oral : 14 Weeks : Liver, Kidne	g ey, Heart, Teeth
Expo	EL EL sure time of Organs toms	: Loss of bala	vous system ance nism or mode of action may not be relevant in
Expo	EL EL cation Route sure time et Organs toms	: Loss of bala	iscle, Central nervous system ance nism or mode of action may not be relevant in
	EL cation Route sure time	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significa	nt adverse effects were reported
Cellu Speci NOAE Applic	es	: Rat : >= 9,000 m : Ingestion	g/kg

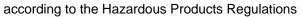




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Expo	osure time	: 90 Days	
Titar	nium dioxide:		
		: Rat : 24,000 mg : Ingestion : 28 Days	ı/kg
		: Rat : 10 mg/m ³ : inhalation : 2 y	(dust/mist/fume)
Aspi	iration toxicity		
Not	classified based on ava	ilable informatior	
Expe	erience with human e	kposure	
Com	ponents:		
metf	ormin hydrochloride:		
	contact contact stion	: Remarks: : Symptoms	May irritate skin. May irritate eyes. s: Diarrhea, Nausea, Vomiting, Gastrointestinal dis- atulence, asthenia, Fatigue, Headache
Sita	gliptin:		
Inha	lation	Headache	
Inge	stion		s: upper respiratory tract infection, nasopharyngitis, , Nausea, Abdominal pain, Diarrhea
SECTION	I 12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
Com	iponents:		
metf	ormin hydrochloride:		
Toxic plant	city to algae/aquatic ts	: EC50 (Ps mg/l	eudokirchneriella subcapitata (green algae)): > 100

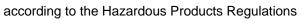
plants	mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- : icity)	NOEC (Pimephales promelas (fathead minnow)): 10 mg/l Exposure time: 33 d Method: OECD Test Guideline 210





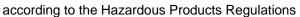


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Toxicity aquatic ic toxic	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
Toxicity	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
Sitagli	otin:			
	/ to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	y 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)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
Toxicity	y to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			NOEC: 150 mg/l Exposure time: 3 Test Type: Respir	
Cellulo	ose:			
	y to fish	:	Exposure time: 48	pes (Japanese medaka)): > 100 mg/l h on data from similar materials
	ım dioxide: / to fish	:	LC50 (Oncorhync	hus mykiss (rainbow trout)): > 100 mg/l





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			Exposure time: 96 Method: OECD T		
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h		
	Toxicity to algae/aquatic plants		EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h		
Τοχί	Toxicity to microorganisms		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Pers	Persistence and degradability				
Com	ponents:				
	ormin hydrochloride: egradability	:	Result: rapidly de Biodegradation: 4 Exposure time: 2	50 %	
Sita	gliptin:				
Biod	egradability	:	Result: not rapidly Biodegradation: 3 Exposure time: 28 Method: OECD T	39.7 % 3 d	
Stab	ility in water	:	Hydrolysis: 50 %(Method: OECD T		
Cell	ulose:				
Biod	egradability	:	Result: Readily bi	odegradable.	
Bioa	occumulative potential				
Com	ponents:				
Parti	formin hydrochloride: ition coefficient: n- nol/water	:	log Pow: -2		
Parti	gliptin: ition coefficient: n- nol/water	:	log Pow: -0.03		
Mob	ility in soil				
Com	ponents:				
	ormin hydrochloride:				
	ibution among environ- tal compartments	:	log Koc: 4.3 Method: OECD T	est Guideline 106	
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Distril	liptin: bution among environ- al compartments	:	log Koc: 4.37		
	r adverse effects ata available				
SECTION 13. DISPOSAL CONSIDERATIONS					
Dispo	osal methods				
Waste	e from residues	:		f waste into sewer. ordance with local regulations.	
Conta	ontaminated packaging : Empty containers should be taken to an approved was			•	

handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

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

according to the Hazardous Products Regulations



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5.1	09/29/2023	27095-00023	Date of first issue: 10/31/2014

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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according to the Hazardous Products Regulations

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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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