according to GB/T 16483 and GB/T 17519



# Imipenem / Cilastatin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	15823-00031	Date of first issue: 2014/11/05

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Imipenem / Cilastatin Formulation					
Manufacturer or supplier's details							
Company	:	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 white sulphurous
		cause allergy or asthma symptoms or breathing difficulties if ne unborn child. Very toxic to aquatic life with long lasting ef-
GHS Classification Serious eye damage/eye irri- tation	:	Category 2A
Respiratory sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1





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	ard pictograms		¥2
Signa	al word	: Danger	$\mathbf{V}$
Haza	ard statements	H334 May cau difficulties if in H361d Suspe	serious eye irritation. use allergy or asthma symptoms or breathing haled. cted of damaging the unborn child. kic to aquatic life with long lasting effects.
Prec	autionary statements	P202 Do not H and understoo P261 Avoid br P264 Wash sl P273 Avoid re P280 Wear pr tion/ face prot	reathing dust. kin thoroughly after handling. elease to the environment. otective gloves/ protective clothing/ eye protec-
		keep comforta P305 + P351 for several mi easy to do. Co P308 + P313 attention. P337 + P313 tention. P342 + P311 POISON CEN P391 Collect s	
		<b>Storage:</b> P405 Store lo	cked up.
		Disposal:	of contents/ container to an approved waste

### Physical and chemical hazards

Not classified based on available information.

according to GB/T 16483 and GB/T 17519



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#### **Health hazards**

Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of damaging the unborn child.

#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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

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)
Cilastatin	81129-83-1	>= 50 -< 70
Imipenem	74431-23-5	>= 30 -< 50

#### **4. 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.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	

according to GB/T 16483 and GB/T 17519



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Protection of first-aiders Notes to physician		:	the skin. 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). Treat symptomatically and supportively.		
5. FIRI	EFIGHTING MEASURES				
Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing media		None known.		
	Specific hazards during fire- fighting		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.	
	azardous combustion prod-	:	Carbon oxides		
	pecific extinguishing meth- ds	:	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	
	pecial protective equipment r firefighters	:		e, wear self-contained breathing apparatus. ective equipment.	
6 400		<u>ei 16</u>			

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material.

Avoidance of contact

Materials to avoid

Conditions for safe storage

Storage

according to GB/T 16483 and GB/T 17519



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		with compress Dust deposits es, as these m leased into the Clean up rema bent. Local or nation posal of this m employed in th mine which rep Sections 13 an	al of dust in the air (i.e., clearing dust surfaces sed air). should not be allowed to accumulate on surfac- nay form an explosive mixture if they are re- e atmosphere in sufficient concentration. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Hand	lling		
Tech	nical measures	causing an ex Provide adequ	ty may accumulate and ignite suspended dust plosion. Jate precautions, such as electrical grounding or inert atmospheres.
	/Total ventilation e on safe handling	: Do not breathe Do not swallow Do not get in e Avoid prolonge Wash skin tho Handle in acco practice, base sessment Keep containe Already sensit to asthma, alle	w. eyes. ed or repeated contact with skin. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- er tightly closed. ised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with respira-

Keep in properly labelled containers.

environment.

: Oxidizing agents

Store locked up. Keep tightly closed.

:

:

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

Store in accordance with the particular national regulations.

according to GB/T 16483 and GB/T 17519



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Packaging material

: Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplac	e control param	eters			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Cilastatin	81129-83-1	TWA	5 mg/m3 (OEB 1)	Internal	
Imipenem	74431-23-5	TWA	3000 ug/m3 (OEB 1)	Internal	
	Further inform	mation: RSEN, D	SEN		
		Wipe limit	100 µg/100 cm2	Internal	
Engineering measures	ing controls shou	ntrols to minimize expo uld be implemented by rdance with GMP princ nd the environment.	facility		
Personal protective equipm	ent				
Respiratory protection	sure assess ommended	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	<ul> <li>Particulates type</li> <li>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.</li> </ul>				
Skin and body protection Hand protection Material		m or laboratory c sistant gloves	oat.		
Hygiene measures	: If exposure f eye flushing ing place. When using Wash conta The effective engineering appropriate industrial hy	to chemical is lik systems and sa do not eat, drink minated clothing e operation of a controls, proper degowning and	before re-use. facility should include r personal protective ec decontamination proce g, medical surveillance	he work- eview of juipment, dures,	

#### Components with workplace control parameters

### 9. PHYSICAL AND CHEMICAL PROPERTIES

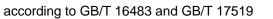
Appearance

: powder

according to GB/T 16483 and GB/T 17519



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	Colour		:	white	
	Odour		:	sulphurous	
	Odour T	Fhreshold	:	No data available	2
	pН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial be range	oiling point and boiling	:	No data available	9
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density		:	1 g/cm <sup>3</sup>	
:	Solubili Wate	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol, Auto-igi	/water nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosit Visc	ty osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	Not applicable	





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Explo	sive properties	:	Not explosive		
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.	
Moleo	cular weight	<ul><li>No data available</li><li>No data available</li></ul>			
	cle characteristics cle size				
0. STAB	ILITY AND REACTIVITY	,			
	tivity nical stability bility of hazardous reac-	:	Stable under nor May form explos dling or other me	ive dust-air mixture during processing, han-	
Cond	itions to avoid	:	Heat, flames and Avoid dust forma		
Incompatible materials Hazardous decomposition products		<ul> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>			
	OLOGICAL INFORMAT		1		
1. TOXIC					
	sure routes	:	Inhalation Skin contact Ingestion Eye contact		
Expo Acute	e toxicity	:	Skin contact Ingestion Eye contact		
Expo Acute Not c	<b>e toxicity</b> lassified based on availa	: ble	Skin contact Ingestion Eye contact		
Expo Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents:	: ble	Skin contact Ingestion Eye contact		
Expo Acute Not c <u>Com</u>	<b>e toxicity</b> lassified based on availa	: ble :	Skin contact Ingestion Eye contact	) mg/kg	
Expo Acute Not c <u>Com</u>	e toxicity lassified based on availa ponents: tatin:	: ble :	Skin contact Ingestion Eye contact information.		
Expos Acute Not c Comp Cilas	e toxicity lassified based on availa ponents: tatin:	: ble :	Skin contact Ingestion Eye contact information. LD50 (Rat): 8,000		
Expos Acute Not c Com Cilas Acute	e toxicity lassified based on availa ponents: tatin: e oral toxicity	: ble :	Skin contact Ingestion Eye contact information. LD50 (Rat): 8,000	000 mg/kg	
Expos Acute Not c Com Cilas Acute Acute Acute	e toxicity lassified based on availa ponents: tatin: e oral toxicity enem:	:	Skin contact Ingestion Eye contact information. LD50 (Rat): 8,000 LD50 (Mouse): 8,	000 mg/kg ),000 mg/kg 00 mg/kg	

according to GB/T 16483 and GB/T 17519



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#### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Cilastatin:

Species Result

: Rabbit : No skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Components:**

#### Cilastatin:

Species Result

: Rabbit Moderate eye irritation

Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

:

#### **Components:**

<b>Cilastatin:</b> Exposure routes Remarks	:	Skin contact No data available
Exposure routes Remarks	:	Inhalation No data available
<b>Imipenem:</b> Remarks	:	May cause sensitisation of susceptible persons by inhalation of aerosol or dust.
Exposure routes Remarks	:	Skin contact Not classified due to lack of data.
Gorm coll mutagonicity		

#### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

### **Cilastatin:**

Genotoxicity in vitro	: Test Type: Microbial mutagenesis assay (Ames test)
	Result: negative

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# 

Imipenem:	
Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative
	Test Type: reverse mutation assay Result: negative
	Test Type: unscheduled DNA synthesis assay Result: negative
	Test Type: Chromosomal aberration Result: negative
	Test Type: sister chromatid exchange assay Result: negative
Genotoxicity in vivo :	Test Type: In vivo micronucleus test Species: Mouse Application Route: Intravenous Result: negative

### Carcinogenicity

Not classified based on available information.

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

### Components:

# Cilastatin:

Effects on fertility :		Test Type: Fertility/early embryonic development Application Route: Intravenous Fertility: LOAEL: 1,000 Symptoms: No adverse effects Result: No effects on fertility and early embryonic develop- ment were detected.
Imipenem:		
Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Intravenous Fertility: LOAEL: 80 mg/kg body weight Symptoms: No adverse effects, Reduced foetal weight Result: No effects on fertility and early embryonic develop- ment were detected. Test Type: Fertility/early embryonic development Species: Rat, male and female

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Effec ment	ts on foetal develop-	Fertility: LOA Symptoms: N Result: No ef ment were de : Test Type: D Species: Mor Application R Development Result: Embr spring were d Test Type: D Species: Rab Application R Development	evelopment hkey coute: Intravenous tal Toxicity: LOAEL: 100 mg/kg body weight yotoxic effects and adverse effects on the off- detected., No teratogenic effects evelopment
		Development	
Repro sessr	oductive toxicity - As- nent	: Some eviden animal exper	ce of adverse effects on development, based on iments.
	<b>F - single exposure</b> lassified based on avail	able information.	
	<b>F</b> - repeated exposure		

Not classified based on available information.

### Repeated dose toxicity

#### Components:

Cilastatin:Species:NOAEL:Application Route:Exposure time:Remarks:	Rat >= 500 mg/kg Intravenous 90 Days No significant adverse effects were reported
Species:NOAEL:Application Route:Exposure time:Remarks:	Monkey >= 500 mg/kg Intravenous 5 Weeks No significant adverse effects were reported

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Spec NOAI LOAE Applie Expo	EL	: Monkey : 60 mg/kg : 150 mg/kg : Intravenous : 6 Months : Kidney	
Speci NOAI Applie	ies EL cation Route sure time	Monkey 120 mg/kg Subcutaneous 6 Months	adverse effects were reported
	EL cation Route sure time	: Rat : 180 mg/kg : Intravenous : 6 Months : No significant	adverse effects were reported
		: Rabbit : 150 mg/kg : Intravenous : Kidney	
Not c	ration toxicity lassified based on avai		
_	rience with human ex ponents:	(posure	
	enem:	Dizziness, Dro	ausea, Vomiting, Diarrhoea, Fever, hypotension, wsiness, Convulsions, pruritis, Rash cause sensitisation of susceptible persons by erosol or dust.
12. ECOL	OGICAL INFORMATIO	N	
Ecote	oxicity		
Com	ponents:		
Cilae	tatin:		

 Cilastatin:

 Toxicity to fish
 : LC50 (Pimephales promelas (fathead minnow)): > 111 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

 Toxicity to daphnia and other aquatic invertebrates
 : EC50 (Daphnia magna (Water flea)): > 99 mg/l Exposure time: 48 h

according to GB/T 16483 and GB/T 17519



ersion )	Revision Date: 2024/09/28		9S Number: 823-00031	Date of last issue: 2024/04/06 Date of first issue: 2014/11/05
			Method: OECD T	est Guideline 202
Toxicit plants	y to algae/aquatic	:	EC50 (Anabaena Exposure time: 72 Method: OECD T	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
Toxicit icity)	y to fish (Chronic tox-	:	EC10 (Pimephale Exposure time: 32 Method: OECD T	
	y to daphnia and other c invertebrates (Chron- city)	:	EC10 (Daphnia m Exposure time: 2 <sup>7</sup> Method: OECD T	
Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
II Imiper	nem:			
Toxicit		:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicit plants	y to algae/aquatic	:	EC50 (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	a flos-aquae (cyanobacterium)): 0.002 mg/ 2 h est Guideline 201
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	

according to GB/T 16483 and GB/T 17519



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			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD To	
M-Fac	ctor (Acute aquatic tox-	:	100	
icity) Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fac	ctor (Chronic aquatic	:	10	
toxicit Toxici	y) ty to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ration inhibition
II Persis	stence and degradabili	ty		
Comp	onents:			
Cilast	atin:			
Biode	gradability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD To	27 %
Imipe	nem:			
Biode	gradability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD To	29 %
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Cilast	atin:			
Partiti octano	on coefficient: n- ol/water	:	log Pow: -3.53	
Imipe	nem:			
Partitio octano	on coefficient: n- ol/water	:	log Pow: < -1	



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### Mobility in soil

### **Components:**

### Cilastatin:

Distribution among environ- : log Koc: 2.3 mental compartments

#### Other adverse effects

No data available

### **13. DISPOSAL CONSIDERATIONS**

Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
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.

### 14. TRANSPORT INFORMATION

### **International Regulations**

UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Iminonom)
Class Packing group Labels Environmentally hazardous	:	(Imipenem) 9 III 9 yes
<b>IATA-DGR</b> UN/ID No. Proper shipping name	:	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Imipenem)
Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	::	9 III Miscellaneous 956 956
Environmentally hazardous IMDG-Code UN number Proper shipping name	:	yes UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Imipenem)



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Class	:	9
Packing group	:	111
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

#### 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	<ul> <li>: UN 3077</li> <li>: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,</li></ul>
Proper shipping name	N.O.S.
Class	(Imipenem) : 9
Packing group	: III
Labels	: 9
Marine pollutant	: no

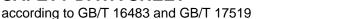
#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupation	al Diseases		
Regulations on Safety Management of Hazardous	Chemicals		
Catalogue of Hazardous Chemicals	: This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.		
Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed 18218)			
Hazardous Chemicals for Priority Management under SAWS	: Not listed		
Regulations on Labour Protection in Workplaces	where Toxic Substances are Used		
Catalogue of Highly Toxic Chemicals	: Not listed		
Regulation of Environmental Management on the and Export of Toxic Chemicals	First Import of Chemicals and the Import		

China Severely Restricted Toxic Chemicals for Import : Not listed





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### and Export

# Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

### 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	:	2024/09/28
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/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

#### Full text of other abbreviations

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



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Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	15823-00031	Date of first issue: 2014/11/05

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 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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