

VersionRevision Date:SDS Number:Date of last issue: 2024/04/5.02024/09/2811259174-00005Date of first issue: 2023/08/	
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### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Insulin Porcine (with Metacresol) Formulation	
Supplier's company name, ac Company name of supplier		<b>ess and phone number</b> MSD	
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory	
Telephone	:	048-588-8411	
E-mail address	:	EHSDATASTEWARD@msd.com	
Emergency telephone number	:	+1-908-423-6000	

### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

### 2. HAZARDS IDENTIFICATION

#### **GHS** classification of chemical product

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
m-Cresol	108-39-4	>= 0.1 - < 1	3-499, 4-57
Insulin (ox), 8A-I-threonine-10A-I- isoleucine-	12584-58-6	>= 0.1 - < 1	-

#### 4. FIRST AID MEASURES



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If inhaled In case of skin contact		:	<ul> <li>If inhaled, remove to fresh air.</li> <li>Get medical attention if symptoms occur.</li> <li>Wash with water and soap as a precaution.</li> </ul>				
	ase of eye contact	:	Get medical attention if symptoms occur. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. None known.				
anc dela	st important symptoms I effects, both acute and ayed	:					
	tection of first-aiders es to physician	:		utions are necessary for first aid responders. cally and supportively.			
5. FIRE	FIGHTING MEASURES						
Sui	table extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
Uns me	suitable extinguishing dia	:	None known.				
	ecific hazards during fire- ting	:	Exposure to com	pustion products may be a hazard to health.			
Haz ucts	zardous combustion prod- s	:	No hazardous co	mbustion products are known			
Spe ods	ecific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			
	ecial protective equipment firefighters	:	essary.	ed breathing apparatus for firefighting if nec- tective equipment.			
	DENTAL RELEASE MEAS	SUF	RES				

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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. Prevent spreading over a wide area (e.g. by containment or oil barriers).



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		Local		se of contaminated wash water. should be advised if significant spillages ied.
	ods and materials for inment and cleaning up	For la ment be pu Clean bent. Local posal emplo mine Sectio	rge spills, p to keep mat mped, store up remainin or national of this mate yed in the c which regula ons 13 and 2	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. Its of this SDS provide information regarding attional requirements.
7. HANDL	ING AND STORAGE			
Hand	-			
lechi	nical measures			measures under EXPOSURE
	/Total ventilation e on safe handling	: Use o : Handl practio sessm Take	nly with ade e in accorda ce, based o nent	equate ventilation. ance with good industrial hygiene and safety in the results of the workplace exposure as- ent spills, waste and minimize release to the
	lance of contact ene measures	: Oxidiz : If expo flushir place. When Wash The e engine appro indust	ting agents osure to che ng systems using do no contaminat ffective ope eering contr priate dego rial hygiene	emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the tive controls.
Stora	ade			
	itions for safe storage			abelled containers.
Mate	rials to avoid	: Do no		ice with the particular national regulations. the following product types: agents
Packa	aging material	: Unsui	table materi	al: None known.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
m-Cresol	108-39-4	ACL	5 ppm	JP OEL ISHL
		OEL-M	5 ppm	JP OEL
			22 mg/m3	JSOH
	Further informa	ation: Skin absor	rption	
		TWA (Inhal- able fraction and vapor)	20 mg/m3	ACGIH
Insulin (ox), 8A-I-threonine- 10A-I-isoleucine-	12584-58-6	TWA	3 µg/m3 (OEB 4)	Internal

Engineering measures:All engineering controls should be implemented by facility<br/>design and operated in accordance with GMP principles to<br/>protect products, workers, and the environment.<br/>Essentially no open handling permitted.<br/>Use closed processing systems or containment technologies.<br/>If handled in a laboratory, use a properly designed biosafety<br/>cabinet, fume hood, or other containment device if the poten-<br/>tial exists for aerosolization. If this potential does not exist,<br/>handle over lined trays or benchtops.Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally re- quired.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. 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	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Physics	al stato		suspension	
	Physica		:	suspension	
	Colour			white to off-white	
	Odour		:	No data available	
	Odour	Threshold	:	No data available	9
	Melting	point/freezing point	:	No data available	9
		point, initial boiling nd boiling range	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	9
	Upp	explosion limit and uppe per explosion limit / Up- flammability limit			
		ver explosion limit / ver flammability limit	:	No data available	
	Flash p	point	:	No data available	)
	Decom	position temperature	:	No data available	9
	рН		:	6.9 - 7.8	
	Evapor	ration rate	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	No data available	)
	Partitio octanol	n coefficient: n- I/water	:	Not applicable	
	Vapour	· pressure	:	No data available	2
		/ and / or relative densit ative density	у :	No data available	)
	Der	nsity	:	1.003 g/cm <sup>3</sup>	
	Relativ	e vapour density	:	No data available	9



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Explos	sive properties	:	Not explosive					
Oxidiz	ing properties	:	The substance	or mixture is not classified as oxidizing.				
Molec	ular weight	:	No data availal	ble				
	e characteristics rticle size	:	: Not applicable					
10. STABII	LITY AND REACTIVIT	Y						
Possib tions Condit Incom	ical stability bility of hazardous reac tions to avoid patible materials dous decomposition	- :	Stable under n Can react with None known. Oxidizing agen	as a reactivity hazard. ormal conditions. strong oxidizing agents. ts decomposition products are known.				
11. TOXICO	OLOGICAL INFORMA	TIO	N					
Inform exposi	ation on likely routes o ure	f:	Inhalation Skin contact Ingestion Eye contact					
	toxicity assified based on avail	able	information.					
Produ	ict:							
Acute	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method				
Acute	dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method				
Comp	onents:							
m-Cre	esol:							
Acute	oral toxicity							
Acute	inhalation toxicity	:	Assessment: Co	prrosive to the respiratory tract.				
Acute	dermal toxicity	:	LD50 (Rabbit): : Remarks: Base	301 mg/kg d on data from similar materials				



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	in (ox), 8A-I-threonir		
	e toxicity (other routes nistration)	of : LD50 (Rat)	: > 36 mg/kg
	corrosion/irritation		
	lassified based on ava	ailable information.	
	oonents:		
m-Cre Speci		: Rabbit	
Resul		: Corrosive a	after 3 minutes to 1 hour of exposure
Insuli	in (ox), 8A-I-threonir	e-10A-I-isoleucin	e-:
Rema	arks	: No data av	ailable
	us eye damage/eye lassified based on ava		
Com	oonents:		
m-Cre	esol:		
Speci Resul		: Rabbit : Irreversible	effects on the eye
Insuli	in (ox), 8A-I-threonir	e-10A-I-isoleucin	e-:
Rema	arks	: No data av	ailable
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
Not cl	lassified based on ava	ailable information.	
-	iratory sensitisation lassified based on ava		
	cell mutagenicity		
	lassified based on ava	ailable information.	
<u>Com</u> r	oonents:		
m-Cre	esol:		
Geno	toxicity in vitro		Chromosome aberration test in vitro ECD Test Guideline 473 iitive
			Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative
Geno	toxicity in vivo	: Test Type:	Mutagenicity (in vivo mammalian bone-marrow



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			ovtogenetic test	chromosomal analysis)
			Species: Mouse	, chromosomal analysis)
			Application Rou	
			Method: OECD Result: negative	Test Guideline 475
Insuli	n (ox), 8A-I-threonin	e-10A	-l-isoleucine-:	
Genot	oxicity in vitro	:		erial reverse mutation assay (AMES)
				Imonella typhimurium
			Result: negative	Test Guideline 471
				mosome aberration test in vitro
				inese hamster lung cells Test Guideline 473
			Result: negative	
Genot	oxicity in vivo	:		vo micronucleus test
			Cell type: Bone	marrow Test Guideline 475
			Result: negative	
-	cell mutagenicity - sment	:	Weight of evider cell mutagen.	nce does not support classification as a ge
ASSES			oon matagom	
	nogenicity		een matagem	
Carcir		ilable		
Carcir Not cla	nogenicity	ilable		
Carcir Not cla <u>Comp</u> m-Cre	nogenicity assified based on ava onents: esol:	ilable	information.	
Carcir Not cla <u>Comp</u> m-Cre	nogenicity assified based on ava nonents: esol: es	ilable	information. Mouse, males	
Carcir Not cla <u>Comp</u> m-Cre Specie Applic	nogenicity assified based on ava nonents: esol: es ation Route	ilable : :	information. Mouse, males Ingestion	
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos	nogenicity assified based on ava ponents: esol: es ation Route ure time	ilable : :	information. Mouse, males Ingestion 105 weeks	
Carcir Not cla <u>Comp</u> m-Cre Specie Applic	nogenicity assified based on ava conents: esol: es ation Route ure time	ilable : : :	information. Mouse, males Ingestion 105 weeks equivocal	rom similar materials
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai	nogenicity assified based on ava ponents: esol: es ation Route ure time t rks	ilable : : : :	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female	rom similar materials
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic	nogenicity assified based on ava ponents: esol: es ation Route ure time t rks es ation Route	ilable	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion	
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos	nogenicity assified based on ava conents: esol: es ation Route ure time t rks es ation Route ure time	ilable	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks	
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic	nogenicity assified based on ava conents: esol: es ation Route ure time t rks es ation Route ure time	ilable	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive	
Carcin Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos Result Remai	nogenicity assified based on ava conents: esol: es ation Route ure time t rks es ation Route ure time	ilable	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive Based on data f Weight of evider	5
Carcir Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos Result Remai	nogenicity assified based on ava conents: esol: es ation Route ure time t rks es ation Route ure time t rks	ilable	information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive Based on data f	s rom similar materials
Carcin Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos Result Remai Carcin ment	nogenicity assified based on ava conents: esol: es ation Route ure time t rks es ation Route ure time t rks		information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive Based on data f Weight of evider cinogen	s rom similar materials
Carcin Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos Result Remai Carcin ment	nogenicity assified based on ava ponents: esol: es ation Route ure time t rks es ation Route ure time t rks nogenicity - Assess- n (ox), 8A-I-threonin		information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive Based on data f Weight of evider cinogen	s rom similar materials
Carcin Not cla <u>Comp</u> m-Cre Specie Applic Expos Result Remai Specie Applic Expos Result Remai Carcin ment Insuli Specie Applic	nogenicity assified based on ava ponents: esol: es ation Route ure time t rks es ation Route ure time t rks hogenicity - Assess-		information. Mouse, males Ingestion 105 weeks equivocal Based on data f Mouse, female Ingestion 106 - 107 weeks positive Based on data f Weight of evider cinogen	s rom similar materials



ersion 0	Revision Date: 2024/09/28		S Number: 259174-00005	Date of last issue: 2024/04/06 Date of first issue: 2023/08/11
Carci ment	nogenicity - Assess-	:	Weight of evider cinogen	nce does not support classification as a car-
	oductive toxicity			
	lassified based on avai	ilable	information.	
<u>Com</u>	ponents:			
m-Cr				
Effect	ts on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effect ment	ts on foetal develop-	:	Test Type: Pren Species: Rat Application Rout Result: negative	
II Insuli	in (ox), 8A-I-threonine	e-10A	-l-isoleucine-:	
Effect	ts on fertility	:	Species: Rat Application Rout Fertility: NOAEL Symptoms: No e	lity/early embryonic development te: Intraperitoneal Mating/Fertility: 360 μg/kg effects on fertility ts on fertility and early embryonic develop- cted.
	Γ <b>- single exposure</b> lassified based on avai	ilabla	information	
	I - repeated exposure		mornation.	
	lassified based on avai		information.	
	ated dose toxicity			
Com	ponents:			
m-Cr	esol:			
Speci		:	Rat	
NOAE		:	150 mg/kg	
	cation Route sure time	:	Ingestion 13 Weeks	
Metho		:	OECD Test Gui	deline 408
-				
	in (ox), 8A-I-threonine	e-10A		
Speci	les	:	Rat	

Species	:	Rat
	:	5.8 mg/kg
Application Route	:	Inhalation
Species Application Route Exposure time	:	6 Months

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ic toxicity)



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# Insulin Porcine (with Metacresol) Formulation

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Symp	otoms	:	Hypoglycemia	
Spec	ies	:	Monkey	
		:	0.64 mg/kg	
	cation Route	:	Inhalation 6 Months	
Symp		:	Hypoglycemia	
Spec		:	Rat	
NOA		:	0.085 mg/kg	
	cation Route	:	Subcutaneous 1 Months	
		•	T MOITUIS	
Spec		:	Dog	
NOA Appli	EL cation Route	:	0.07 mg/kg Subcutaneous	
	sure time	:	1 Months	
Inhal	l <b>in (ox), 8A-I-threonin</b> ation	:	Symptoms: Hyp Headache, Nau	oglycemia, Fatigue, Drowsiness, Sweating, sea, Palpitation, tingling, numbness, alterec Breathing difficulties
FCOL	OGICAL INFORMATIO			
	oxicity			
	ponents:			
	resol:			
	city to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 8.6 mg/l 96 h
	city to daphnia and othe tic invertebrates	er :	EC50 (Daphnia Exposure time:	pulex (Water flea)): > 99.5 mg/l 48 h
Toxic icity)	city to fish (Chronic tox-	• :	Exposure time:	
			Remarks: Base	d on data from similar materials
	city to daphnia and othe		NOEC (Daphnia Exposure time:	a magna (Water flea)): 1 mg/l
	tic invertebrates (Chroi			

Remarks: Based on data from similar materials



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Persi	istence and degradab	oility		
	ponents:			
m-Cr	esol:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time: 2 Method: OECD	90 %
Bioa	ccumulative potential	I		
Com	ponents:			
m-Cr	esol:			
Bioad	ccumulation	:		cus idus (Golden orfe) n factor (BCF): 17 - 20
	ion coefficient: n- ol/water	:	log Pow: 1.96	
	<b>lity in soil</b> ata available			
	rdous to the ozone la pplicable	ayer		
	<b>r adverse effects</b> ata available			
13. DISPO	SAL CONSIDERATIO	ONS		
-	osal methods		Disease	ender en stille le entre stations
Wast	e from residues	:		cordance with local regulations. of waste into sewer.
Conta	aminated packaging	:	Empty container dling site for rec	rs should be taken to an approved waste har ycling or disposal.

#### **14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

#### IATA-DGR

If not otherwise specified: Dispose of as unused product.



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UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		<ul> <li>Not applicable</li> </ul>	
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant		<ul> <li>Not applicable</li> </ul>	
Not a	pplicable for product as nal Regulations	supplied.	POL 73/78 and the IBC Code
	to section 15 for specifi ial precautions for use	-	
<b>Spec</b> Not a	ial precautions for use	r	
Spec Not a ERG	ial precautions for use	er : 171	
Spec Not a ERG . REGU Relat Fire S Not a	ial precautions for use pplicable Code	er : 171 DN materials / designated	flammables.
Spec Not a ERG . REGU Relat Fire S Not a Chem Priorit	ial precautions for use pplicable Code LATORY INFORMATIC ed Regulations Service Law pplicable to dangerous r	er : 171 DN materials / designated ol Law	flammables.
Spec Not a ERG 5. REGU Relat Fire S Not a Chem Priorit	ial precautions for use pplicable Code LATORY INFORMATIC ed Regulations Service Law pplicable to dangerous r hical Substance Contro ty Assessment Chemica mical name	er : 171 DN materials / designated ol Law	
Spec Not a ERG . REGU Relat Fire S Not a Chen Priorit Cher	ial precautions for use pplicable Code LATORY INFORMATIC ed Regulations Service Law pplicable to dangerous r hical Substance Contro ty Assessment Chemica mical name	er : 171 DN materials / designated ol Law Il Substance	Number
Spec Not a ERG ERG Relat Fire S Not a Chem Priorit Cher Indus Harm	ial precautions for use pplicable Code LATORY INFORMATIC ed Regulations Service Law pplicable to dangerous r nical Substance Contro ty Assessment Chemica mical name ol strial Safety and Health	er : 171 DN materials / designated ol Law Il Substance	Number 156
Spec Not a ERG ERG Relat Fire S Not a Chem Priorit Cher Indus Harm Not a Harm	ial precautions for use pplicable Code LATORY INFORMATIC ed Regulations Service Law pplicable to dangerous r hical Substance Contro ty Assessment Chemica mical name ol strial Safety and Health	er : 171 DN materials / designated ol Law Il Substance h Law bited from Manufactu	Number 156



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on Ex	lar concerning Info isting Chemicals happlicable		having Mutagenicity - An	nex 2: Information
		rmation on Chemicals naving Mutagenicity	having Mutagenicity - A	nnex 1: Information
	oplicable	aving matagementy		
	tances Subject to b	e Notified Names		
	e 57-2 (Enforcement			
Cher	nical name		Concentration (%)	Remarks
Cres	ol		>=0.1 - <1	-
	t <b>ances Subject to b</b> oplicable	e Indicated Names		
Skin a	•	ibstances for PPE Req	uirements (ISHL MO Art.	594-2)
tions)	-	s (Article 577-2 of the (	Occupational Health and	Safety Regula-
	ance on Preventior	of Hazards Due to Sp	ecified Chemical Substa	nces
	ance on Preventior	of Lead Poisoning		
	ance on Preventior	of Tetraalkyl Lead Po	isoning	
	ance on Preventior	of Organic Solvent Po	bisoning	
Enfor		e Industrial Safety and	Health Law - Attached ta	ble 1 (Dangerous
Not a	oplicable			
Poiso	nous and Deleterio	us Substances Contro	l Law	
Not a	oplicable			
			of Specific Chemical Sub he Management Thereof	
Not a	oplicable	-	-	
-	Pressure Gas Safet	y Act		
-	oplicable	•		
	sive Control Law			
-	oplicable			
	el Safety Law gulated as a danger			
	yulateu as a udi yel	Jua uuuu		



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	on Law							
Not re	Not regulated as a dangerous good							
Marin	Marine Pollution and Sea Disaster Prevention etc Law							
Bulk tr	ransportation	: N	noxious liquid substance					
Pack t	ransportation	: N	Not classified as marine pollutant					
Narco Not ap	Narcotics and Psychotropics Control Act Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission)							
	Not applicable							
	e Disposal and Public rial waste	Cleans	sing Law					
The c	omponents of this pro	oduct a	re reported in t	he following inventories:				
AICS		: no	ot determined					
DSL		: no	ot determined					
IECSC		: no	ot determined					

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

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

#### Further information

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

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						
ACGIH JP OEL ISHL JP OEL JSOH	:	USA. ACGIH Threshold Limit Values (TLV) Japan. Administrative Control Levels Japan. The Japan Society for Occupational Health. Recom- mendation of Occupational Exposure Limits				
ACGIH / TWA JP OEL ISHL / ACL JP OEL JSOH / OEL-M		8-hour, time-weighted average Administrative Control level Occupational Exposure Limit-Mean				

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



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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

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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