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#### Section 1: Identification

Product identifier	:	Bovilis MH Single Shot RTU / MH + IBR Formulation
Other means of identifica- tion	:	Coopers Bovilis MH Single-Shot RTU READY-TO-USE MH VACCINE FOR CATTLE (92022) COOPERS BOVILIS MH+IBR BOVINE RESPIRATORY DISEASE (BRD) VACCINE (64608) Bovilis MH+IBR (A011518) COOPERS BOVILIS MH MANNHEIMIA HAEMOLYTICA VACCINE FOR CATTLE (55767)
Recommended use of the ch	nem	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable
Manufacturer or supplier's d	eta	ils
Company	:	MSD
Address	:	50 Tuas West Drive Singapore - Singapore 638408
Telephone	:	+1-908-740-4000
Emergency telephone number	:	65 6697 2111 (24/7/365)
E-mail address	:	EHSDATASTEWARD@msd.com

# Section 2: Hazard identification

Classification of the substand	nce or mixture : Category 1				
Carcinogenicity	: Category 1B				
GHS Label elements, including precautionary statements Hazard pictograms :					
Signal word	: Danger				
Hazard statements	: H317 May cause an allergic skin read	ction.			

H350 May cause cancer.



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Preca	utionary statements	P202 Do not ha and understood P261 Avoid bre P272 Contamir the workplace. P280 Wear pro	pecial instructions before use. andle until all safety precautions have been read d. eathing mist or vapours. hated work clothing should not be allowed out of tective gloves/ protective clothing/ eye protec- ction/ hearing protection.
		P308 + P313 IF attention. P333 + P313 If vice/ attention.	ON SKIN: Wash with plenty of water. exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before
		<b>Storage:</b> P405 Store locl	ked up.
		Disposal:	of contents/ container to an approved waste
	<b>hazards which do n</b> known.	ot result in classificat	ion

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Antigen	Not Assigned	>= 50 -< 70
White mineral oil (petroleum)	8042-47-5	>= 1 -< 10
Glycerine	56-81-5	>= 1 -< 10
Formaldehyde	50-00-0	>= 0.2 -< 1
Thiomersal	54-64-8	>= 0.0025 -< 0.025

## Section 4: First-aid measures

# Description of necessary 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



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lf inha	aled	advice. : If inhaled, remove to fresh air.		
In cas	se of skin contact	<ul><li>Get medical attention.</li><li>In case of contact, immediately flush skin with soap and plenty of water.</li></ul>		
		Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
In cas	se of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf swa	allowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> </ul>		
Most	important symptoms a	and effects, both acute and delayed		
Risks		: May cause an allergic skin reaction.		
Prote	ction of first-aiders	May cause cancer. 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).		
Indic	ation of any immediate	medical attention and special treatment needed		
Treat	•	: Treat symptomatically and supportively.		
ection 5	: Fire-fighting measure	S		
-	guishing media			
Suital	ble extinguishing media	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Unsu media	itable extinguishing a	: None known.		
Spec	ial hazards arising from	n the substance or mixture		
Speci				
	ific hazards during fire-	: Exposure to combustion products may be a hazard to health.		
fightir		<ul><li>Exposure to combustion products may be a hazard to health.</li><li>Carbon oxides</li></ul>		
fightir Haza ucts	ng	: Carbon oxides		



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## Section 6: Accidental release measures

Personal precautions, protective ec Personal precautions :	<b>quipment and emergency procedures</b> Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions 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). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containn	nent and cleaning up
Methods for cleaning up :	

# Section 7: Handling and storage

Precautions for safe handling	ng
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	<ul> <li>Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the</li> </ul>
Hygiene measures	<ul> <li>environment.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working</li> </ul>



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		place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of th workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.	
Con	ditions for safe storage	e, including any inc	compatibilities
Con	ditions for safe storage	Store locked u Keep tightly cl	•
Mate	erials to avoid		vith the following product types:

## Section 8: Exposure controls/personal protection

## **Control parameters**

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	PEL (long term) (Mist)	5 mg/m3	SG OEL
		PEL (short term) (Mist)	10 mg/m3	SG OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Glycerine	56-81-5	PEL (long term) (Mist)	10 mg/m3	SG OEL
Formaldehyde	50-00-0	PEL (short term)	0.3 ppm 0.37 mg/m3	SG OEL
		TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
Thiomersal	54-64-8	PEL (long term)	0.01 mg/m3 (Mercury)	SG OEL
		PEL (short term)	0.03 mg/m3 (Mercury)	SG OEL
		TWÁ	0.01 mg/m3 (Mercury)	ACGIH
		STEL	0.03 mg/m3 (Mercury)	ACGIH



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## **Biological occupational exposure limits**

						- ·	
Components	CAS-No.	Control parameters	Biological specimen	Sam- pling	Permissible concentra-	Basis	
		•	•	time	tion		
Thiomersal	54-64-8	Mercury (Mercury)	Urine		25 µg/l	SG BTLV	
Appropriate engineering control measures	tec less All des pro	e appropriate e hnologies to co s quick connect engineering co sign and opera tect products, poratory opera	ontrol airborr ctions). ontrols shoul ted in accore workers, and	ne concentr d be impler dance with d the enviro	ations (e.g., d nented by faci GMP principle nment.	rip- lity s to	
Individual protection me	easures, su	ch as persona	al protective	e equipmer	nt (PPE)		
Eye/face protection	lf th mis We pot	ar safety glass ne work enviro sts or aerosols ar a faceshield ential for direc osols.	nment or act , wear the ap d or other ful	tivity involve opropriate g I face prote	es dusty condi oggles. ction if there is	sa	
Skin protection	: Wo	Work uniform or laboratory coat.					
Respiratory protection	: If a sur	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.					
Filter type Hand protection	: Co	mbined particu	lates and or	ganic vapo	ur type		
Material	: Ch	emical-resista	nt gloves				

## Section 9: Physical and chemical properties

Appearance	:	suspension
Colour	:	white to off-white
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	6.0 - 8.0
Melting point/freezing point	:	0°C
Initial boiling point and boiling range	:	100 °C (1000 hPa)
Flash point	:	No data available



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-	_			No. Jorgana Matta	
E	=vapor	ation rate	:	No data available	
F	-lamma	ability (solid, gas)	:	Not applicable	
F	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
V	∕apour	pressure	:	2.37 kPa (20 °C)	
F	Relative	e vapour density	:	No data available	
F	Relative	e density	:	1	
C	Density	,	:	No data available	
S	Solubili Wat	ty(ies) er solubility	:	soluble	
		n coefficient: n-	:	Not applicable	
	octanol Auto-ig	nition temperature	:	No data available	•
C	Decom	position temperature	:	No data available	•
V	∕iscosi Visc	ty osity, kinematic	:	No data available	
E	Explosi	ve properties	:	Not explosive	
C	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
Ν	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

# Section 10: Stability and reactivity

Reactivity Chemical stability		Not classified as a reactivity hazard. Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.



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Ha	compatible materials zardous decomposition oducts	:		composition products are known.
Sectior	11: Toxicological inform	atic	on	
	ormation on likely routes of bosure	:	Inhalation Skin contact Ingestion Eye contact	
	<b>ute toxicity</b> t classified based on availa	blo	information	
		bie	iniormation.	
	<u>oduct:</u> ute oral toxicity	:	Acute toxicity estin Method: Calculation	mate: > 2,000 mg/kg on method
Ac	ute inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	gas
Ac	ute dermal toxicity	:	Acute toxicity estin Method: Calculation	mate: > 2,000 mg/kg on method
<u>Co</u>	mponents:			
W	nite mineral oil (petroleum	n):		
Ac	ute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Ac	ute inhalation toxicity	:	LC50 (Rat): > 5 m Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	ר ר
Ac	ute dermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal
Gl	ycerine:			
	ute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Ac	ute dermal toxicity	:	LD50 (Guinea pig	): > 5,000 mg/kg
	rmaldehyde: ute oral toxicity	:	Acute toxicity esti Method: Expert ju	



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			Remarks: Based	d on national or regional regulation.	
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Expert	e: gas	
Acute	e dermal toxicity	:	LD50 (Rabbit): 270 mg/kg		
Thior	nersal:				
Acute	e oral toxicity	:	LD50 (Rat): 75 r	mg/kg	
			Method: Expert	stimate: 10 mg/kg judgement d on national or regional regulation.	
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Expert Remarks: Based	4 h e: dust/mist	
Acute	e dermal toxicity	:	Method: Expert	stimate: 10 mg/kg judgement d on national or regional regulation.	
Skin	corrosion/irritation				
	lassified based on ava	ilable	information.		
<u>Com</u>	ponents:				
	e mineral oil (petrole	um):	Data		
Speci Resu		:	Rabbit No skin irritation	1	
	erine:				
Glyce					
Speci	ies	:	Rabbit		
-	ies	:	Rabbit No skin irritation	1	
Speci Resu	ies	:		1	
Speci Resu	ies It a <b>ldehyde:</b> It	:	No skin irritation	a 3 minutes to 1 hour of exposure nal or regional regulation.	

Not classified based on available information.



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#### **Components:**

White mineral oil (petroleu	וm):	
Species	:	Rabbit
Result	:	No eye irritation
		-
Glycerine:		
Species	:	Rabbit
Result	:	No eye irritation
		-
Formaldobydo:		

#### Formaldehyde:

Result	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

## Components:

# White mineral oil (petroleum):

Test Type	:	<b>Buehler</b> Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

#### Formaldehyde:

Test Type Exposure routes Species Result	::	Human repeat insult patch test (HRIPT) Skin contact Humans positive
Assessment	:	Probability or evidence of high skin sensitisation rate in humans

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### White mineral oil (petroleum):

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test
		Result: negative



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Genot	toxicity in vivo	cytogenetic assa Species: Mouse Application Route Method: OECD T Result: negative	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection est Guideline 474 on data from similar materials
Glyce	rine:		
Genot	toxicity in vitro	: Test Type: In vitr Result: negative	o mammalian cell gene mutation test
		Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
		Test Type: Chror Result: negative	nosome aberration test in vitro
			damage and repair, unscheduled DNA syn- lian cells (in vitro)
Forma	aldehyde:		
Genot	toxicity in vitro	: Test Type: Bacte Result: positive	rial reverse mutation assay (AMES)
		Test Type: In vitre Result: positive	o mammalian cell gene mutation test
		Test Type: Chror Result: positive	nosome aberration test in vitro
Genot	toxicity in vivo	: Test Type: In vive Species: Mouse Application Route Result: positive	o mammalian alkaline comet assay e: Inhalation
	cell mutagenicity - sment	: Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
Thion	nersal:		
Genot	toxicity in vitro	: Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Genot	toxicity in vivo	: Test Type: Mamr tion test (in vivo) Species: Mouse Application Route Result: negative	nalian spermatogonial chromosome aberra- e: Ingestion



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## Carcinogenicity

May cause cancer.

# Components:

White mineral oil (petroleum):Species:Application Route:Exposure time:Result:	Rat Ingestion 24 Months negative					
Glycerine:Species:Application Route:Exposure time:Result:	Rat Ingestion 2 Years negative					
Formaldehyde:Species:Application Route:Exposure time:Result:	Rat inhalation (gas) 28 Months positive					
Carcinogenicity - Assess- : ment	Sufficient evidence of carcinogenicity in animal experiments					
Thiomersal:Species:Exposure time:Result:	Rat 1 Years negative					
Reproductive toxicity Not classified based on available information.						
Components:						
White mineral oil (petroleum): Effects on fertility :	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Skin contact Result: negative					

ment S	est Type: Embryo-foetal development pecies: Rat pplication Route: Ingestion esult: negative
--------	------------------------------------------------------------------------------------------------------



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Glyce Effect	e <b>rine:</b> s on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion
Effect ment	s on foetal develop-	:	Test Type: Embr Species: Rat Application Rout Result: negative	yo-foetal development e: Ingestion
	<b>aldehyde:</b> s on foetal develop-		Test Type: Embr	yo-foetal development
ment		•	Species: Rat	e: inhalation (gas)
Thion	nersal:			
Effect ment	s on foetal develop-	:	Species: Rat Application Rout Result: positive Remarks: Based	e: Ingestion on data from similar materials
Repro sessn	oductive toxicity - As- nent	:		f adverse effects on sexual function and fer velopment, based on animal experiments
	- single exposure assified based on avail	lable	information.	
<u>Comp</u>	oonents:			
	aldehyde: ssment	:	May cause respi	ratory irritation.
	- repeated exposure assified based on avail		information.	
<u>Comp</u>	oonents:			
-	nersal:			
Targe	t Organs	:	Central nervous tinal tract, Kidney	system, Cardio-vascular system, Gastrointe /
Asses	ssment	:		to organs through prolonged or repeated



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## **Repeated dose toxicity**

Components:	
White mineral oil (petroleum):SpeciesLOAELApplication RouteExposure time	Rat 160 mg/kg Ingestion 90 Days
Species : LOAEL : Application Route : Exposure time : Method :	Rat >= 1 mg/l inhalation (dust/mist/fume) 4 Weeks OECD Test Guideline 412
Glycerine: Species : NOAEL : LOAEL : Application Route : Exposure time :	Rat 0.167 mg/l 0.622 mg/l inhalation (dust/mist/fume) 13 Weeks
Species : NOAEL : Application Route : Exposure time :	Rat 8,000 - 10,000 mg/kg Ingestion 2 yr
Species:NOAEL:Application Route:Exposure time:	Rabbit 5,040 mg/kg Skin contact 45 Weeks
Thiomersal:Species:LOAEL:Application Route:Remarks:	Rat >= 0.5 mg/kg Ingestion Based on data from similar materials

## Aspiration toxicity

Not classified based on available information.

## Section 12: Ecological information

## Toxicity

## **Components:**

White mineral oil (petroleum):



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-	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 1,000 mg/l 3 d
á		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 1,000 mg/l d
(	Glyceri	ne:			
-	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 54,000 mg/l ১ h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 1,955 mg/l 3 h
-	Toxicity	to microorganisms	:	NOEC (Pseudomo Exposure time: 16 Method: DIN 38 4	
	Formal	dehyde:			
	Toxicity	•	:	LC50 (Morone sax Exposure time: 96	xatilis (striped bass)): 6.7 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): 5.8 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
á		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h



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	<b>nersal:</b> ity to fish	:	Exposure time: 9	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	on data from similar materials nagna (Water flea)): > 0.01 - 0.1 mg/l 8 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	- 0.1 mg/l Exposure time: 9	chneriella subcapitata (green algae)): > 0.01 6 h on data from similar materials
icity) Toxici	ctor (Acute aquatic tox- ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	sp. (water flea)): > 0.001 - 0.01 mg/l 1 d on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
Persi	stence and degradabili	ity		
Comp	oonents:			
	<b>e mineral oil (petroleun</b> gradability	ו <b>):</b> י	Result: Not readi Biodegradation: Exposure time: 2	31 %
<b>Glyce</b> Biode	e <b>rine:</b> gradability	:	Result: Readily b Biodegradation: Exposure time: 3 Method: OECD T	92 %
	<b>aldehyde:</b> gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	99 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
	Jonenta.			



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octar	nol/water		
Form	naldehyde:		
	tion coefficient: n- nol/water	: log Pow: 0.35 Remarks: Calc	ulation
Mobi	ility in soil		
No d	ata available		
Othe	er adverse effects		
No d	ata available		
Section 1	3: Disposal conside	rations	
Disp	osal methods		
Wast	te from residues	-	of waste into sewer. ccordance with local regulations.

	•	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.

## Section 14: Transport information

## International Regulations

## UNRTDG

UN number UN proper shipping name Transport hazard class(es) Subsidiary risk Packing group Labels Environmentally hazardous		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. UN proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk	:	Not applicable Not applicable Not applicable Not applicable



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Packing group	: Not applicable
Labels	: Not applicable
EmS Code	: Not applicable
Marine pollutant	: Not applicable

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and	:	Not applicable
Environmental Protection and Management (Hazard-		
ous Substances) Regulations		

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

## Section 16: Other information

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Further information Sources of key data used to compile the Safety Data Sheet	Internal technical data, data from raw material SDSs, C eChem Portal search results and European Chemicals cy, http://echa.europa.eu/			
Date format	dd.mm.yyyy			
Full text of other abbreviations				
ACGIH SG BTLV SG OEL	USA. ACGIH Threshold Limit Values (TLV) Singapore. Biological Threshold Limit Values Singapore. Workplace Safety and Health (General Prov Regulations - First Schedule Permissible Exposure Lim Toxic Substances.			



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ACGIH / TWA ACGIH / STEL	8-hour, time-weighted average Short-term exposure limit
SG OEL / PEL (long term) SG OEL / PEL (short term)	Permissible Exposure Level (PEL) Long Term Permissible Exposure Level (PEL) Short Term

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 - Verv Persistent and Verv 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.

SG / EN