

Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/27
3.4	2023/12/08	10876244-00008	Date of first issue: 2022/10/24

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

Product name	:	Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation
Other means of identification	:	Coopers Bovilis MH Single-Shot Ready-to-Use MH Vaccine for Cattle (92022) Coopers Bovilis MH+IBR Bovine Respiratory Disease (BRD) Vaccine (64608) Bovilis MH+IBR (A011518)
Manufacturer or supplier's d	eta	ils
Company	:	MSD

Address	:	126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone number	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com

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

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	:	Category 1
Carcinogenicity	:	Category 1B
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H350 May cause cancer.



Version 3.4	Revision Date: 2023/12/08	SDS Number: 10876244-00008		sue: 2023/11/27 sue: 2022/10/24			
Preca	autionary statements	Brovention					
		P202 Do not ha and understood P261 Avoid bre P272 Contamin the workplace.	d. eathing mist or va nated work clothin otective gloves/ pr	ety precautions have been read			
		P308 + P313 IF attention. P333 + P313 If vice/ attention.	<ul> <li>P302 + P352 IF ON SKIN: Wash with plenty of water.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/ attention.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical ad- vice/ attention.</li> <li>P362 + P364 Take off contaminated clothing and wash it before</li> </ul>				
		Storage: P405 Store locl	ked up.				
		Disposal:	-				
		P501 Dispose o disposal plant.	of contents/ conta	ainer to an approved waste			
	e <b>r hazards which do n</b> o e known.	not result in classificat	tion				
3. COMP(	SITION/INFORMATIC	ON ON INGREDIENTS	;				
Subs	stance / Mixture	: Mixture					
	ponents						
	nical name	(	CAS-No.	Concentration (% w/w)			
Antige			Not Assigned	>= 30 -< 60			
	e mineral oil (petroleum		3042-47-5	< 10			
	aldehyde	/	50-00-0	>= 0.2 -< 1			
1 01111	alderiyae	<b>_</b>	0000	2= 0.2 3 1			

#### 4. FIRST AID MEASURES

Thiomersal

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. Get medical attention.

54-64-8

>= 0.0025 -< 0.025



Version 3.4	Revision Date: 2023/12/08		S Number: 876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24			
In (	In case of skin contact		In case of contact, immediately flush skin with soap and plen of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
In	case of eye contact	:	Flush eyes with w	ater as a precaution. tion if irritation develops and persists.			
lf s	wallowed	:		NOT induce vomiting. tion.			
an	est important symptoms d effects, both acute and ayed	:	May cause an alle May cause cance				
Pro	Protection of first-aiders		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).				
No	Notes to physician		Treat symptomatically and supportively.				
5. FIRE	FIGHTING MEASURES						
Su	Suitable extinguishing media		Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical				
	suitable extinguishing dia	:	None known.				
Sp	ecific hazards during fire- nting	:	Exposure to comb	oustion products may be a hazard to health.			
	zardous combustion prod-	:	Carbon oxides				
Sp od:		<ul> <li>Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is saf so.</li> </ul>		he surrounding environment. o cool unopened containers.			
	ecial protective equipment firefighters	Evacuate area.					
6. ACC	IDENTAL RELEASE MEAS	SUF	RES				
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	uipment and emer- Follow safe handling advice (see section 7) and		ing advice (see section 7) and personal pro-			

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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### Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version 3.4	Revision Date: 2023/12/08	SDS Number: 10876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24			
	hods and materials for tainment and cleaning up	<ul> <li>Local authorities cannot be contained to contain the contained of the contained of</li></ul>	Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.			
7. HAND	DLING AND STORAGE					
	hnical measures al/Total ventilation	CONTROLS/PE	g measures under EXPOSURE RSONAL PROTECTION section.			
		ventilation.	ilation is unavailable, use with local exhaust			
Adv	rice on safe handling	Do not swallow. Avoid contact w Handle in accor practice, based sessment Keep container	mist or vapours. ith eyes. dance with good industrial hygiene and safety on the results of the workplace exposure as-			

		environment.
Conditions for safe storage	:	Keep in properly labelled containers.
		Store locked up.
		Keep tightly closed.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:
		Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	NAB (Mist)	5 mg/m3	ID OEL
		PSD (Mist)	10 mg/m3	ID OEL



Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/27
3.4	2023/12/08	10876244-00008	Date of first issue: 2022/10/24

		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Formaldehyde	50-00-0	PSD	0.3 ppm	ID OEL
	Further info	rmation: Dermal S	ensitization, Respi	ratory Sensitiza-
	tion, Suspec	cted human carcin	ogen	-
		TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
Thiomersal	54-64-8	NAB	0.01 mg/m3 (Mercury)	ID OEL
	Further info	rmation: Skin		
		PSD	0.03 mg/m3 (Mercury)	ID OEL
	Further info	rmation: Skin		
		TWA	0.01 mg/m3 (Mercury)	ACGIH
		STEL	0.03 mg/m3 (Mercury)	ACGIH

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type :	Combined particulates, inorganic gas/vapour and organic vapour type
Hand protection	
Material :	Chemical-resistant gloves
Eye protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection : Hygiene measures :	Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/27
3.4	2023/12/08	10876244-00008	Date of first issue: 2022/10/24

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.

#### 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
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	2.37 kPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	1
Density	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available



### Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

VersionRevision Date:SDS Number:Date of last issue: 2023/11/273.42023/12/0810876244-00008Date of first issue: 2022/10/24	
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Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic Explosive properties	:	No data available Not explosive
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	Not applicable

#### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

#### **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20000 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



	Version 3.4	Revision Date: 2023/12/08	SDS Number: 10876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
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#### **Components:**

White mineral oil (petroleum	n):	
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Formaldehyde:		
Acute oral toxicity	:	Acute toxicity estimate: 100 mg/kg Method: Expert judgement
Acute inhalation toxicity	:	Acute toxicity estimate: 100 ppm Exposure time: 4 h Test atmosphere: gas Method: Expert judgement
Acute dermal toxicity	:	LD50 (Rabbit): 270 mg/kg
Thiomersal:		
Acute oral toxicity	:	LD50 (Rat): 75 mg/kg
		Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.
Acute inhalation toxicity	:	Acute toxicity estimate: 0.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Remarks: Based on national or regional regulation.
Acute dermal toxicity	:	Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

White mineral oil (petroleum):



ersion .4	Revision Date: 2023/12/08	SDS Number: 10876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
Speci Resul		: Rabbit : No skin irritation	
Form	aldehyde:		
Speci		: Rabbit	
Metho Resul		: OECD Test Gui : Corrosive after 3	deline 404 3 minutes to 1 hour of exposure
	us eye damage/eye assified based on ava		
	onents:	anable mormation.	
	e mineral oil (petrole	um).	
Speci		: Rabbit	
Resul		: No eye irritation	
	aldehyde:		
Speci Resul		: Rabbit : Irreversible effe	cts on the eve
Resp	iratory or skin sensi		
-	sensitisation		
-	ause an allergic skin	reaction.	
Resp	iratory sensitisation		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
	e mineral oil (petrole	•	
Test T	Гуре sure routes	: Buehler Test : Skin contact	
Speci		: Guinea pig	
Resul		: negative	
Form	aldehyde:		
Test		: Local lymph noc	le assay (LLNA)
	sure routes	: Skin contact	
Speci Metho		: Mouse : OECD Test Gui	deline 429
Resul		: positive	
Asses	ssment	: Probability or ev mans	idence of high skin sensitisation rate in h



	Version 3.4	Revision Date: 2023/12/08	SDS Number: 10876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
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#### Germ cell mutagenicity

**Components:** 

Not classified based on available information.

Components	<u>.</u>		
White miner	al oil (petroleum)	):	
Genotoxicity	in vitro	:	Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity	in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials
Formaldehy	de:		
Genotoxicity		:	Test Type: Bacterial reverse mutation assay (AMES) Result: positive
			Test Type: Chromosome aberration test in vitro Result: positive
Genotoxicity	in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Inhalation Result: positive
Germ cell mu Assessment	Itagenicity -	:	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.
Thiomersal:			
Genotoxicity	in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity	in vivo	:	Test Type: Mammalian spermatogonial chromosome aberra- tion test (in vivo) Species: Mouse Application Route: Ingestion Result: negative

Carcinogenicity

May cause cancer.



	Version 3.4	Revision Date: 2023/12/08	SDS Number: 10876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
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#### **Components:**

components.		
White mineral oil (petroleum	n):	
Species Application Route Exposure time Result	: :	Rat Ingestion 24 Months 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 availa	able	information.
Components:		
White mineral oil (petroleum	n):	
Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Skin contact Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
Formaldehyde:		
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (gas) Result: negative
Thiomersal: Effects on foetal develop- ment	:	Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials



Version 3.4	Revision Date: 2023/12/08	SDS Numb 10876244-(		Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
Repro	oductive toxicity - As- nent			dverse effects on sexual function and fertil- opment, based on animal experiments
et of				
	- single exposure lassified based on ava	ilable informat	ion.	
	oonents:			
	aldehyde:			
	ssment	: May ca	use respirat	ory irritation.
	<b>- repeated exposure</b> lassified based on ava		ion.	
<u>Com</u>	oonents:			
Form	aldehyde:			
	sure routes ssment		bstance or n	nixture is not classified as specific target eated exposure.
Thior	nersal:			
-	et Organs ssment	tinal tra	ct, Kidney	stem, Cardio-vascular system, Gastrointes- organs through prolonged or repeated
A336	SSITICTIC	exposu	-	organs intough protonged of repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
White	e mineral oil (petrole	um):		
Speci		: Rat	1	
LOAE Applio	cation Route	: 160 mg : Ingestic		
	sure time	: 90 Days		
Speci		: Rat		
LOAE Appli	EL cation Route	: >= 1 m(	g/l on (dust/mis	st/fume)
	sure time	: 4 Week		sindine)
Metho		: OECD	Test Guideli	ne 412
Form	aldehyde:			
Speci	es	: Rat		
NOA	ΞL	: 6 ppm		
LOAE	īL.	: 10 ppm	I	



Version 3.4	Revision Date: 2023/12/08		OS Number: 876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
	ication Route osure time	:	inhalation (gas) 28 Days	
Thio	mersal:			
Spec LOA		:	Rat	
Appli	ication Route	÷	>= 0.5 mg/kg Ingestion	
Rem	arks	:	Based on data fro	om similar materials
Aspi	ration toxicity			
Not o	classified based on availa	ble	information.	
12. ECOL	OGICAL INFORMATION	N		
Ecot	oxicity			
	ponents:			
	e mineral oil (petroleun	<b>.</b> ).		
	city to fish	:	Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 6 h est Guideline 203
	city to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h est Guideline 202
	city to algae/aquatic	:	NOEC (Pseudok	rchneriella subcapitata (green algae)): 100
plant	S		mg/l Exposure time: 7	2 h
				est Guideline 201
Toxic icity)	city to fish (Chronic tox-	:	NOEC (Oncorhy Exposure time: 2	nchus mykiss (rainbow trout)): 1,000 mg/l 8 d
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 1,000 mg/l 1 d
Forn	naldehyde:			
Τοχία	city to fish	:	LC50 : 6.7 mg/l Exposure time: 9 Remarks: Based	6 h on data from similar materials
	city to daphnia and other tic invertebrates	:	Exposure time: 4	ulex (Water flea)): 5.8 mg/l 8 h est Guideline 202
Τοχία	city to algae/aquatic		FC50 (Desmode	smus subspicatus (green algae)): 4.89 mg/l
TUXIC	ony to algae/aqualic	•		sinus subspicatus (green argae). 4.09 mg/l



Version 3.4	Revision Date: 2023/12/08		9S Number: 876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
plan	ts		Exposure time: 72 Method: OECD Te	
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 28	tipes (Orange-red killifish)): >= 48 mg/l 3 d
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
Toxi	city to microorganisms	:	EC50: 34.1 mg/l Exposure time: 12	20 h
Thic	mersal:			
	city to fish	:	Exposure time: 96	ticulata (guppy)): > 0.01 - 0.1 mg/l 5 h on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 48	agna (Water flea)): > 0.01 - 0.1 mg/l 3 h on data from similar materials
Toxi plan	city to algae/aquatic ts	:	- 0.1 mg/l Exposure time: 96	chneriella subcapitata (green algae)): > 0.01 S h on data from similar materials
	actor (Acute aquatic tox-	:	10	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Exposure time: 21	sp. (water flea)): > 0.001 - 0.01 mg/l d on data from similar materials
M-Fa toxic	actor (Chronic aquatic ity)	:	10	
Pers	sistence and degradabili	ty		
Com	ponents:			
	<b>te mineral oil (petroleum</b> egradability	ו <b>):</b> י	Result: Not readily Biodegradation: 3 Exposure time: 28	31 %
	<b>naldehyde:</b> egradability	:	Result: Readily bi Biodegradation: S Exposure time: 14 Method: OECD Te	91 %

Packing instruction (cargo

Packing instruction (passen- : Not applicable

Labels

aircraft)

ger aircraft) IMDG-Code



### Coopers Bovilis MH Single Shot RTU / MH + . IBR Formulation

Version 3.4	Revision Date: 2023/12/08		DS Number: 876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24
			Remarks: Based	d on data from similar materials
Bioad	ccumulative potentia	I		
Com	ponents:			
<b>Form</b> Partit	aldehyde: ion coefficient: n-	:	log Pow: 0.35	
octan	ol/water		Remarks: Calcu	lation
	<b>lity in soil</b> ata available			
Othe	r adverse effects			
No da	ata available			
	SAL CONSIDERATIO	JNS		
-	e from residues	:		of waste into sewer. cordance with local regulations.
Conta	aminated packaging	:	Empty container dling site for rec	rs should be taken to an approved waste har ycling or disposal. specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATIC	N		
Interi	national Regulations			
UNR	-			
	umber	:	Not applicable	
	er shipping name	:	Not applicable	
Class	s idiary risk	:	Not applicable Not applicable	
	ing group	÷	Not applicable	
Label		:	Not applicable	
IATA	-DGR			
UN/IE		:	Not applicable	
	er shipping name	:	Not applicable	
Class	s idiary risk	:	Not applicable Not applicable	
	ing group	•	Not applicable	
l abel		:	Not applicable	

: Not applicable

: Not applicable



3.4         2023/12/08         3DS Number.         Date of first issue: 2023/11/27	Version	Revision Date:	SDS Number:	Date of last issue: 2023/11/27
	3.4	2023/12/08	10876244-00008	Date of first issue: 2022/10/24

UN number	: Not applicable	
Proper shipping name	: Not applicable	
Class	: Not applicable	
Subsidiary risk	: Not applicable	
Packing group	: Not applicable	
Labels	: Not applicable	
EmS Code	: Not applicable	
Marine pollutant	: Not applicable	

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

Not applicable for product as supplied.

Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

: Formaldehyde

### Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

#### Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Glycerine Formaldehyde
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

### Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and control, Annex I	:	Formaldehyde
Turne of her and an another international to distribution and		Net en else ble

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

AICS : not determined



Version 3.4	Revision Date: 2023/12/08		DS Number: 9876244-00008	Date of last issue: 2023/11/27 Date of first issue: 2022/10/24		
DSL		:	not determined			
IEC	SC	:	not determined			
16. OTH	ER INFORMATION					
Rev	ision Date	:	2023/12/08			
Furt	her information					
	rces of key data used to pile the Safety Data et	:	<ul> <li>Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/</li> </ul>			
Date	e format	:	yyyy/mm/dd			
Full text of other abbreviations						
ACC ID C		:		eshold Limit Values (TLV) ational Exposure Limits		
ACC ID C	GIH / TWA GIH / STEL DEL / NAB DEL / PSD	:	8-hour, time-weig Short-term expos Long term expos Short term expos	ure limit ure limit		

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 Sub-



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stances 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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