

according to the OSHA Hazard Communication Standard

Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version 4.0	Revision Date: 04/06/2024		9S Number: 876233-00009	Date of last issue: 12/08/2023 Date of first issue: 10/24/2022	
SECTIO	N 1. IDENTIFICATION				
Product name Other means of identification		:	 Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation 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) 		
Mar	ufacturer or supplier's	deta	ils		
	npany name of supplier ress	:	Merck & Co., Inc 126 E. Lincoln Av Rahway, New Jei	venue rsey U.S.A. 07065	
Eme	phone ergency telephone ail address		908-740-4000 1-908-423-6000 EHSDATASTEW	ARD@merck.com	
Rec	ommended use of the c	hem	nical and restriction	ons on use	
	ommended use trictions on use	:	Veterinary produc Not applicable	ct	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)							
Skin sensitization	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.						
Precautionary Statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have bee and understood. P261 Avoid breathing mist or vapors. P272 Contaminated work clothing must not be allowed of the workplace. P280 Wear protective gloves, protective clothing, eye pl and face protection. 	out of					

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		P308 + P313 IF P333 + P313 If tion.	ON SKIN: Wash with plenty of soap and water. exposed or concerned: Get medical attention. skin irritation or rash occurs: Get medical atten- ntaminated clothing before reuse.
		Storage: P405 Store lock	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents and container to an approved waste
	r hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture						
Components						
Chemical name	CAS-No.	Concentration (% w/w)				
Antigen	Not Assigned	>= 50 - <= 54				
White mineral oil (petroleum)	8042-47-5	9.5				
Glycerine	56-81-5	1				
Formaldehyde	50-00-0	0.3				

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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	:	May cause an allergic skin reaction. May cause cancer.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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Note	es to physician	:	when the potentia	nmended personal protective equipment al for exposure exists (see section 8). cally and supportively.			
SECTION	15. FIRE-FIGHTING ME	ASL	JRES				
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical				
	Unsuitable extinguishing media		None known.				
Spec fight	cific hazards during fire	:	Exposure to combustion products may be a hazard to health.				
Haza	ardous combustion prod-	:	Carbon oxides				
Spec ods	cific extinguishing meth-	:	cumstances and Use water spray	g 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			
	cial protective equipment re-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.			
SECTION	16. ACCIDENTAL RELE	AS	E MEASURES				

Personal precautions, protec- tive equipment and emer- gency procedures	 Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective 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). 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	 Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding



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		certain local or	national requirements.		
SECTION	I 7. HANDLING AND ST	ORAGE			
Tech	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.		
Local/Total ventilation			ntilation is unavailable, use with local exhaust		
Advid	ce on safe handling	Avoid breathin Do not swallow Avoid contact Handle in acco practice, based assessment Keep containe	Keep container tightly closed. Take care to prevent spills, waste and minimize release to the		
Conc	ly labeled containers. p. osed. dance with the particular national regulations.				
Mate	rials to avoid	: Do not store w Strong oxidizir	ith the following product types: ig agents ubstances and mixtures		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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	TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Formaldehyde	50-00-0	TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
		TWA	0.016 ppm	NIOSH REL
		С	0.1 ppm	NIOSH REL
		PEL	0.75 ppm	OSHA CARC
		STEL	2 ppm	OSHA CARC
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL



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				С	0.1 ppm (Formaldehyde)	NIOSH REL
Engi	neering measures	:	technologies t less quick con All engineering design and op protect produc	o control airbor nections). g controls shou erated in accor cts, workers, an	controls and manufac ne concentrations (e.) Id be implemented by dance with GMP prin- d the environment. require special conta	g., drip- r facility ciples to
Pers	onal protective equipn	nent				
Resp	iratory protection	:	maintain vapo concentrations unknown, app Follow OSHA use NIOSH/M by air purifying hazardous che supplied respi release, expos	r exposures be s are above rec ropriate respirat respirator regu SHA approved g respirators ag emical is limited rator if there is sure levels are where air purify	entilation is recommen- low recommended lim commended limits or a story protection should lations (29 CFR 1910 respirators. Protection ainst exposure to any d. Use a positive press any potential for unco unknown, or any othe ring respirators may n	hits. Where are d be worn. .134) and n provided sure air ontrolled or
	l protection aterial	:	Chemical-resi	stant gloves		
Eye ç	protection	:	If the work env mists or aeros Wear a facesh	vironment or ac ols, wear the a hield or other fu	e shields or goggles. tivity involves dusty c ppropriate goggles. Il face protection if the the face with dusts, m	ere is a
	and body protection ene measures	:	If exposure to eye flushing sy working place. When using du Contaminated workplace. Wash contami The effective of engineering co appropriate de industrial hygi	ystems and saf o not eat, drink work clothing pperation of a f ontrols, proper	ely during typical use, ety showers close to or smoke. should not be allowed before re-use. acility should include r personal protective ed lecontamination proce , medical surveillance	the out of the review of quipment, edures,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance

: suspension

Color

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: white to off-white

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	Odor		:	odorless	
	Odor T	hreshold	:	No data available	•
	рН		:	6.0 - 8.0	
	Melting	point/freezing point	:	32 °F / 0 °C	
	Initial b range	oiling point and boiling	:	212 °F / 100 °C (1000 hPa)	
	Flash p	oint	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	,
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	2.37 kPa (68 °F /	20 °C)
	Relative	e vapor density	:	No data available	,
	Relative	e density	:	1	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	•
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	

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•	article characteristics article size	:	Not applicable	
SECTI	ION 10. STABILITY AND RE	EAC	ΤΙνΙΤΥ	
C Pri C In H	eactivity hemical stability ossibility of hazardous reac- ons onditions to avoid icompatible materials azardous decomposition roducts	:	Stable under nor Can react with st None known. Oxidizing agents	rong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact Acute toxicity Not classified based on available information. **Product:** Acute toxicity estimate: > 5,000 mg/kg Acute oral toxicity : Method: Calculation method Acute toxicity estimate: > 20000 ppm Acute inhalation toxicity : Exposure time: 4 h Test atmosphere: gas Method: Calculation method Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method **Components:** White mineral oil (petroleum): 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 inhalation toxicity LD50 (Rabbit): > 2,000 mg/kg Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

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			toxicity			
Glyce	erine:					
	e oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg		
Acute	e dermal toxicity	:	LD50 (Guinea piç	g): > 5,000 mg/kg		
Form	aldehyde:					
Acute	e oral toxicity	:	Acute toxicity est Method: Expert ju			
Acute	e inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Expert ju	h : gas		
Acute	e dermal toxicity	:	LD50 (Rabbit): 27	70 mg/kg		
Not c	corrosion/irritation lassified based on ava ponents:	ailable	information.			
White	e mineral oil (petrole	um):				
Speci Resu	ies	:	Rabbit No skin irritation			
Glyce	erine:					
Speci Resu	ies	:	Rabbit No skin irritation			
Form	aldehyde:					
Speci		:	Rabbit			
Metho Resu		:	OECD Test Guid Corrosive after 3	eline 404 minutes to 1 hour of exposure		
Serious eye damage/eye irritation Not classified based on available information.						
<u>Com</u>	ponents:					
White	e mineral oil (petrole	um):				
Speci Resu		:	Rabbit No eye irritation			
Glyce	erine:					
Speci Resu		:	Rabbit No eye irritation			
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Formaldehyde:

Species Result RabbitIrreversible effects on the eye

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

White mineral oil (petroleum):

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Formaldehyde:

Test Type Routes of exposure Species Method Result	 Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 positive
Assessment	: Probability or evidence of high skin sensitization 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
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
Glycerine:	

Glycerine:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

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			Result: negative	
			Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chrom Result: negative	nosome aberration test in vitro
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
 Forr	naldehyde:			
	otoxicity in vitro	:	Test Type: Bacter Result: positive	rial reverse mutation assay (AMES)
			Test Type: Chrom Result: positive	nosome aberration test in vitro
Gen	otoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Rat Application Route Result: positive	
	n cell mutagenicity - essment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
Card	cinogenicity			
	cause cancer.			
Com	ponents:			
Whi	te mineral oil (petroleun	n):		
Spe	••	:	Rat	
App	ication Route	:	Ingestion	
Res	osure time ult	:	24 Months negative	
Glvc	erine:			
Spe		:	Rat	
Appl	ication Route	:	Ingestion	
Expo Res	osure time ult	:	2 Years negative	
Forr	naldehyde:			
Spe	cies	:	Rat	
Appl	ication Route	:	inhalation (gas)	
Expo Res	osure time	÷	28 Months positive	
		•	200000	



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ment	ogenicity - Assess-			ce of carcinogenicity in animal experiments
IARC	Group 1: Car Formaldehyd		genic to humans	50-00-0
OSHA	OSHA specif Formaldehyd		y regulated carcinc	ogen 50-00-0
NTP	Known to be Formaldehyd		nan carcinogen	50-00-0
-	ductive toxicity assified based on availa	able	information.	
<u>Comp</u>	<u>onents:</u>			
White	mineral oil (petroleur	n):		
Effects	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Skin contact
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	yo-fetal development e: Ingestion
Glyce	rine:			
Effects	s on fertility	:	Test Type: Two-ç Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	yo-fetal development e: Ingestion
Forma	aldehyde:			
Effects	s on fetal development	:	Species: Rat	yo-fetal development e: inhalation (gas)
STOT	single exposure			

STOT-single exposure

Not classified based on available information.

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Comp	Components:					
-	Ildehyde:					
Assess	-	:	May cause respira	atory irritation.		
	repeated exposure assified based on availa	ble	information.			
Comp	onents:					
Forma	Idehyde:					
Routes Assess	s of exposure sment		inhalation (gas) The substance or organ toxicant, re	mixture is not classified as specific target peated exposure.		
Repea	ted dose toxicity					
Comp	onents:					
White	mineral oil (petroleum	ו):				
Specie LOAEI		:	Rat			
Applica	ation Route	÷	160 mg/kg Ingestion			
Expos	ure time	:	90 Days			
Specie		:	Rat			
LOAEL Applica	- ation Route	:	>= 1 mg/l inhalation (dust/m	ist/fume)		
Expos	ure time	:	4 Weeks			
Metho	Method : OECD Test Guideline 412					
Glyce	rine:					
Specie		:	Rat 0.167 mg/l			
NOAE LOAEL	_	÷	0.622 mg/l			
	ation Route ure time	:	inhalation (dust/m 13 Weeks	ist/fume)		
		•				
Specie NOAE	es L	:	Rat 8,000 - 10,000 mg	a/ka		
Applica	ation Route	:	Ingestion			
Expos	ure time	:	2 у			
Specie		:	Rabbit			
NOAE Applica	L ation Route	:	5,040 mg/kg Skin contact			
	ure time	:	45 Weeks			
Forma	Ildehyde:					
Specie	-	:	Rat			
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	EL EL cation Route sure time ration toxicity	: 6 ppm : 10 ppm : inhalation (gas) : 28 Days	

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

White mineral oil (petroleum):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d
Glycerine:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 10,000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
Formaldehyde:		
Toxicity to fish	:	LC50 : 6.7 mg/l Exposure time: 96 h Remarks: Based on data from similar materials



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Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	EC50 (Daphnia p Exposure time: 48 Method: OECD T	
		:	EC50 (Desmodes Exposure time: 72 Method: OECD Te	
Toxicity icity)	y to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 28	tipes (Orange-red killifish)): >= 48 mg/l 3 d
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
Toxicity	y to microorganisms	:	EC50: 34.1 mg/l Exposure time: 12	20 h
Persis	tence and degradabili	ity		
Compo	onents:			
White mineral oil (petroleum		ו):		
Biodeg	radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28	31 %
Glycer	ine:			
Biodeg	radability	:	Result: Readily bi Biodegradation: S Exposure time: 30 Method: OECD To	92 %
Forma	ldehyde:			
Biodeg	radability	:		91 %
Bioaco	cumulative potential			
Compo	onents:			
Glycer Partitio octano	n coefficient: n-	:	log Pow: -1.75	
	Idehyde: n coefficient: n- I/water	:	log Pow: 0.35 Remarks: Calcula	tion

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Mobility in soil No data available Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Dispose of in accordance with local regulations.
	Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Thiomersal)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	no
Remarks	:	Above applies only to containers over 119 gallons or 450 liters.

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.

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Formaldehyde	50-00-0	100	33333

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Formaldehyde	50-00-0	100	33333

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

:	Respiratory or sk Carcinogenicity	in sensitization	
:			
	Formaldehyde	50-00-0	0.3 %
	Thiomersal	54-64-8	0.01 %
		Carcinogenicity : The following con- established by S Formaldehyde	: The following components are su established by SARA Title III, Se Formaldehyde 50-00-0

US State Regulations

Pennsylvania Right To Know

Antigen	Not Assigned
Water	7732-18-5
White mineral oil (petroleum)	8042-47-5
Glycerine	56-81-5
Formaldehyde	50-00-0
Thiomersal	54-64-8

California Prop. 65

WARNING: This product can expose you to chemicals including Formaldehyde, which is/are known to the State of California to cause cancer, and

Thiomersal, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances	
White mineral oil (petroleum)	8042-47-5
California Permissible Exposure Limits for Chemical Contaminants	
White mineral oil (petroleum) Glycerine	8042-47-5 56-81-5
California Regulated Carcinogens	
Formaldehyde	50-00-0

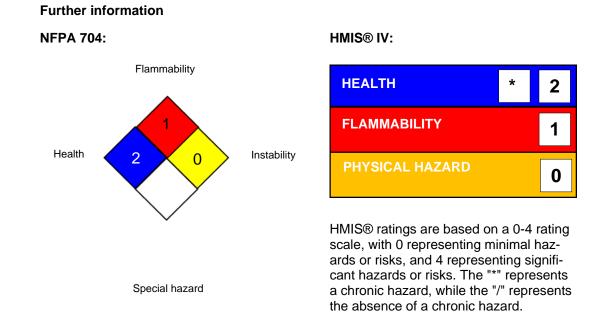
The ingredients of this product are reported in the following inventories:



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

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH		USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA CARC / STEL	:	Excursion limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 12/08/2023
4.0	04/06/2024	10876233-00009	Date of first issue: 10/24/2022

German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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Revision Date : 04/06/2024

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

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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