

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade 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)
1.2 Relevant identified uses of the	ne s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	
Carcinogenicity, Category 1B	

H317: May cause an allergic skin reaction. H350: May cause cancer.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

•

Hazard pictograms





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Signa	l word	: Danger
Hazar	d statements	 H317 May cause an allergic skin reaction. H350 May cause cancer.
Preca	utionary statements	 Prevention: P201 Obtain special instructions before use. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:P308 + P313IF exposed or concerned: Get medical advice/ attention.P333 + P313If skin irritation or rash occurs: Get medical advice/ attention.
		Storage: P405 Store locked up.

Hazardous components which must be listed on the label: Formaldehyde

Additional Labelling

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
---------------	--------------------------------	----------------	--------------------------



		Desistantian available		
Antige	n	Registration number Not Assigned		>= 50 - <
Antige	11	Not Assigned		>= 50 - <
Forma	Idehyde	50-00-0 200-001-8 605-001-00-5 01-2119488953-20	Flam. Gas 1B; H221 Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 specific concentra- tion limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 5 - < 25 % Eye Irrit. 2; H319 5 - < 25 % STOT SE 3; H335 >= 5 % Skin Sens. 1A; H317 >= 0,2 % Acute toxicity esti- mate	>= 0,2 - <
			Acute oral toxicity: 100 mg/kg Acute inhalation toxicity (gas): 100 ppm Acute dermal toxici-	
Thiom	ersal	54-64-8 200-210-4 080-004-00-7	ty: 270 mg/kg Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 1; H310 Repr. 1B; H360 STOT RE 1; H372 (Central nervous system, Cardio-	>= 0,0025 0,025

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

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			Gastrointestinal tract, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 specific concentra- tion limit STOT RE 2; H373 >= 0,1 %
			Acute toxicity esti- mate Acute oral toxicity: 10 mg/kg Acute inhalation toxicity (dust/mist): 0,1 mg/l Acute dermal toxici- ty: 10 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).
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.



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			Wash clothing be Thoroughly clean	fore reuse. shoes before reuse.
In c	ase of eye contact	:		vater as a precaution. Ition if irritation develops and persists.
If sv	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.	
4.2 Mos	important symptoms ar	nd e	ffects, both acute	e and delayed
Risl	KS .	:	May cause an all May cause cance	ergic skin reaction. r.
4.3 Indic	ation of any immediate i	med	lical attention and	d special treatment needed
	atment	:		cally and supportively.
	nguishing media able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
				202)
Uns med	uitable extinguishing lia	:	None known.	
5.2 Spec	ial hazards arising from	the	substance or mi	xture
Spe figh	cific hazards during fire- ting	:	Exposure to com	bustion products may be a hazard to health.
Haz	ardous combustion prod-	:	Carbon oxides	
5.3 Advi	ce for firefighters			
Spe	cial protective equipment irefighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spe 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



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	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.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.	t
Advice on safe handling	 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 safe practice, based on the results of the workplace exposure as sessment 	



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Hygiene measures		:	 Keep container tightly closed. Take care to prevent spills, waste and minimize release to th environment. If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working 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. 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. 			
7.2 Condi	tions for safe storage,	incl	uding any incom	patibilities		
	irements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national		
Advid	ce on common storage	:	Strong oxidizing a	stances and mixtures		
•	f ic end use(s) ific use(s)	:	No data available			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
White mineral oil	8042-47-5	TWA (Vapour)	50 mg/m3	FOR-2011-		
(petroleum)			_	12-06-1358		
		TWA (Mist and	1 mg/m3	FOR-2011-		
		particles)	_	12-06-1358		
Formaldehyde	50-00-0	TWA	0,3 ppm	FOR-2011-		
-			0,37 mg/m3	12-06-1358		
	Further information: Substances considered to be carcinogenic, Substances considered to evoke allergies when coming into touch with the eyes or air-					
	ways or evok	<u> </u>	ming into contact with the ski			
		STEL	0,6 ppm	FOR-2011-		
			0,74 mg/m3	12-06-1358		
	Further information: Substances considered to be carcinogenic, Substances considered to evoke allergies when coming into touch with the eyes or air-					



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	Wa	ays or evoki	ng allergies aft	er coming into contact	with the skin
			TWA	0,3 ppm	2004/37/EC
				0,37 mg/m3	
	Further information		ation: Dermal	sensitisation, Carcinoge	ens or mutagens
			STEL	0,6 ppm	2004/37/EC
				0,74 mg/m3	
	Fu	urther inform	ation: Dermal	sensitisation, Carcinoge	ens or mutagens
Thio	omersal 54	-64-8	TWA	0,01 mg/m3	FOR-2011-
				(Mercury)	12-06-1358
	Fu	Further information: Substances considered to evoke allergies when coming			
	int	into touch with the eyes or airways or evoking allergies after coming into con-			
	tao	ct with the s	kin, Chemicals	that can be absorbed	through the skin.

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Thiomersal	54-64-8	Mercury (Mercury):		AN 361
		30 µg/g creatinine		
		(Urine)		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Glycerine	Workers	Inhalation	Long-term local ef- fects	56 mg/m3
	Consumers	Ingestion	Long-term systemic effects	229 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef- fects	33 mg/m3
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,375 mg/m3
	Workers	Inhalation	Acute local effects	0,75 mg/m3
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0,037 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	3,2 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Skin contact	Long-term local ef- fects	0,012 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	4,1 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name

Value



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Glyce	erine	Fresh water		0,885 mg/l
		Marine water		0,0885 mg/l
		Intermittent us	e/release	8,85 mg/l
		Sewage treatm	nent plant	1000 mg/l
			Fresh water sediment Marine sediment	
		Marine sedime		
		Soil		0,141 mg/kg dry weight (d.w.)
Forma	aldehyde	Fresh water		0,44 mg/l
	•	Freshwater - ir	ntermittent	4,44 mg/l
		Marine water		0,44 mg/l
		Sewage treatm	nent plant	0,19 mg/l
		Fresh water se	ediment	2,3 mg/kg dry weight (d.w.)
		Marine sedime	nt	2,3 mg/kg dry weight (d.w.)
		Soil		0,2 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less 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

Eye/face 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.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Combined particulates, inorganic gas/vapour and organic vapour type (AB-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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PI	hysical sta	te	:	suspension	
C	olour		:	white to off-white	
0	dour		:	odourless	
0	dour Thre	shold	:	No data available	
М	lelting poir	t/freezing point	:	0°C	
	nitial boiling ange	g point and boiling	:	100 °C (1000 hPa	a)
FI	lammability	y (solid, gas)	:	Not applicable	
FI	lammability	y (liquids)	:	No data available	
	pper explo ammability	osion limit / Upper limit	:	No data available	
	ower explo ammability	osion limit / Lower limit	:	No data available	
FI	lash point		:	No data available	
A	uto-ignitior	n temperature	:	No data available	
D	ecomposit	ion temperature	:	No data available	
pł	Н		:	6,0 - 8,0	
Vi	iscosity Viscosity	r, kinematic	:	No data available	
S	olubility(ie: Water so		:	soluble	
	artition coe ctanol/wate	efficient: n- er	:	Not applicable	
Va	apour pres	ssure	:	2,37 kPa (20 °C)	
R	elative der	nsity	:	1	
D	ensity		:	No data available	
R	elative vap	oour density	:	No data available	
Pa	article cha	racteristics			



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Pa	rticle size	: Not applicable	
9.2 Other i Explo	information sives	: Not explosive	
Oxidiz	ring properties	: The substance or mixture is not classified as oxidizir	ng.
Evapo	pration rate	: No data available	
Molec	ular weight	: No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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



dermal toxicity	Т	xposure time: 4 est atmosphere lethod: Calcula	
dermal toxicity			
Acute dermal toxicity		cute toxicity es lethod: Calcula	stimate: > 2.000 mg/kg ation method
onents:			
Idehyde:			
oral toxicity			stimate: 100 mg/kg judgement
inhalation toxicity	E	xposure time: 4 est atmosphere	e: gas
dermal toxicity	: L	D50 (Rabbit): 2	270 mg/kg
ersal:			
oral toxicity	: L	D50 (Rat): 75 r	ng/kg
	N	lethod: Expert	stimate: 10 mg/kg judgement d on national or regional regulation.
inhalation toxicity	E T N	xposure time: 4 est atmosphere lethod: Expert	4 h e: dust/mist
dermal toxicity	Ν	lethod: Expert	stimate: 10 mg/kg judgement d on national or regional regulation.
orrosion/irritation	:loble :::		
	nadie int	ormation.	
	Idehyde: oral toxicity Inhalation toxicity dermal toxicity ersal: oral toxicity inhalation toxicity dermal toxicity	Idehyde: oral toxicity : A inhalation toxicity : A inhalation toxicity : L dermal toxicity : L ersal: : . oral toxicity : L inhalation toxicity : L ersal: : . oral toxicity : . inhalation toxicity : . inhalation toxicity : . dermal toxicity : . orrosion/irritation . . assified based on available inf . .	Idehyde: oral toxicity: Acute toxicity es Method: Expertinhalation toxicity: Acute toxicity es Exposure time: - Test atmosphere Method: Expertdermal toxicity: LD50 (Rabbit): 2ersal: oral toxicity: LD50 (Rat): 75 m Acute toxicity es Method: Expert Remarks: Basedinhalation toxicity: LD50 (Rat): 25 m Acute toxicity es Method: Expert Remarks: Basedinhalation toxicity: Acute toxicity es Method: Expert Remarks: Basedinhalation toxicity: Acute toxicity es Exposure time: - Test atmosphere Method: Expert Remarks: Basedinhalation toxicity: Acute toxicity es Exposure time: - Test atmosphere Method: Expert Remarks: Baseddermal toxicity: Acute toxicity es Exposure time: - Test atmosphere Method: Expert Remarks: Baseddermal toxicity: Acute toxicity es Method: Expert Remarks: Baseddermal toxicity: Acute toxicity es Method: Expert Remarks: Basedorrosion/irritation Issified based on available information.

Formaldehyde:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Not classified based on available information.



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	Comp	onents:			
	Forma	aldehyde:			
	Specie Result		:	Rabbit Irreversible effects	s on the eye
	Respi	ratory or skin sensitis	atio	on	
	Skin s	ensitisation			
	May ca	ause an allergic skin re	actio	on.	
	-	ratory sensitisation assified based on availa	able	information.	
	<u>Comp</u>	onents:			
	Forma	aldehyde:			
	Test T		:	Local lymph node	assay (LLNA)
	Expos Specie	ure routes	:	Skin contact Mouse	
	Metho		:	OECD Test Guide	eline 429
	Result	:	:	positive	
	Asses	sment	:	Probability or evic mans	lence of high skin sensitisation rate in hu-
		cell mutagenicity assified based on availa	able	information	
		onents:			
	Forma	aldehyde:			
		oxicity in vitro	:	Test Type: Bacter Result: positive	ial reverse mutation assay (AMES)
				Test Type: Chrom Result: positive	nosome aberration test in vitro
	Genot	oxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Rat Application Route Result: positive	, ,
	Germ sessm	cell mutagenicity- As- ient	:	Positive result(s) a genicity tests.	from in vivo mammalian somatic cell muta-
	Thiom	nersal:			
		oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)



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Geno	toxicity in vivo	:	Test Type: Mam tion test (in vivo) Species: Mouse Application Rout Result: negative	
	nogenicity cause cancer.			
	ponents:			
	aldehyde:			
Speci Applie	ies cation Route sure time	::	Rat inhalation (gas) 28 Months positive	
Carci ment	nogenicity - Assess-	:	Sufficient eviden	ce of carcinogenicity in animal experiments
Thior	nersal:			
Speci Expo Resu	sure time	:	Rat 1 Years negative	
-	oductive toxicity lassified based on avai	lable	information.	
<u>Com</u>	ponents:			
Form	aldehyde:			
Effect ment	ts on foetal develop-	:	Species: Rat	yo-foetal development e: inhalation (gas)
Thior	nersal:			
Effect ment	ts on foetal develop-	:	Species: Rat Application Rout Result: positive Remarks: Based	e: Ingestion on data from similar materials
Repro sessr	oductive toxicity - As- nent	:		of adverse effects on sexual function and ferti velopment, based on animal experiments

STOT - single exposure

Not classified based on available information.



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Com	ponents:		
Forn	naldehyde:		
Asse	essment	: May cause respiratory irritation.	
	T - repeated exposur	uble information.	
<u>Com</u>	ponents:		
Forn	naldehyde:		
	osure routes ossment	 inhalation (gas) The substance or mixture is not classified as specific targorigan toxicant, repeated exposure. 	get
Thio	mersal:		
Targ	et Organs	: Central nervous system, Cardio-vascular system, Gastro tinal tract, Kidney	vintes-
Asse	essment	: Causes damage to organs through prolonged or repeate exposure.	d
-	eated dose toxicity ponents:		
Forn	naldehyde:		
	EL	 Rat 6 ppm 10 ppm inhalation (gas) 28 Days 	
Thio	mersal:		
Spec LOA Appli Rem	EL ication Route	: Rat : >= 0,5 mg/kg : Ingestion : Based on data from similar materials	
-	ration toxicity classified based on ava	ble information.	
11.2 Info	rmation on other haz	łs	
Ende	ocrine disrupting pro	rties	
Prod	luct:		
	ssment	: The substance/mixture does not contain components con ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation	D



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			(EU) 2017/2100 (levels of 0.1% or	or Commission Regulation (EU) 2018/605 at higher.
SECTIO	N 12: Ecological infor	ma	tion	
12.1 Toxi	icity			
Com	ponents:			
Form	naldehyde:			
Toxi	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 atic invertebrates	:	Exposure time: 4	ulex (Water flea)): 5,8 mg/l 8 h est Guideline 202
Toxic plant	city to algae/aquatic ts	:	Exposure time: 7	smus subspicatus (green algae)): 4,89 mg/l 2 h ïest Guideline 201
Toxi	city to microorganisms	:	EC50 : 34,1 mg/l Exposure time: 1	20 h
Toxic icity)	city to fish (Chronic tox-	:	NOEC: >= 48 mg Exposure time: 2 Species: Oryzias	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Exposure time: 2 Species: Daphnia	
Thio	omersal:			
Toxi	city to fish	:	Exposure time: 9	ticulata (guppy)): > 0,01 - 0,1 mg/l 6 h on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 0,01 - 0,1 mg/l 8 h on data from similar materials
Toxic plant	city to algae/aquatic ts	:	- 0,1 mg/l Exposure time: 9	chneriella subcapitata (green algae)): > 0,01 6 h on data from similar materials
M-Fa icity)	actor (Acute aquatic tox-	:	10	



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aqu	Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		NOEC: > 0,001 - Exposure time: 2 Species: Daphnia Remarks: Based	1 d	
	M-Factor (Chronic aquatic toxicity)		10		
12.2 Per	sistence and degradabil	ity			
<u>Cor</u>	nponents:				
	maldehyde: degradability	:		91 %	
12.3 Bio	accumulative potential				
<u>Cor</u>	nponents:				
Part	maldehyde: tition coefficient: n- anol/water	:	log Pow: 0,35 Remarks: Calcula	ation	
	bility in soil data available				
12.5 Res	sults of PBT and vPvB as	sse	ssment		
Pro	duct:				
Ass	essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
12.6 End	docrine disrupting prope	ertie	es		
<u>Pro</u>	duct:				
Ass	essment	:	ered to have end REACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.	
	er adverse effects data available				



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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
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IMDO	3	: Not regulated as	is a dangerous good
ΙΑΤΑ	(Cargo)	: Not regulated as	is a dangerous good
ΙΑΤΑ	(Passenger)	: Not regulated as	is a dangerous good
14.5 Envi	ronmental hazards		
Not r	egulated as a dangero	ous good	
-	cial precautions for ι applicable	iser	
14.7 Mari	time transport in bul	k according to IMO ins	struments
Rem	arks	: Not applicable f	for product as supplied.
REA the m		ne manufacture, placing ain dangerous substanc ex XVII)	
ture REA	CH - Restrictions on th	ne manufacture, placing	
			If you intend to use this product as tattoo ink, please contact your ven-
			dor.
			Thiomersal (Number on list 18) Formaldehyde (Number on list 72, 28)
			Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli-

REACH - Candidate List of Substances of Very High
Concern for Authorisation (Article 59).
REACH - List of substances subject to authorisation
(Annex XIV)
Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals not. : Not applicable

cable to the placing on the market or

- : Not applicable
- : Not applicable
- : Not applicable
- : Thiomersal



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

CTION 16: Other infor	mation
Other information	: Items where changes have been made to the previous versior are highlighted in the body of this document by two vertical lines.
Full text of H-Statemer	nts
H221	: Flammable gas.
H300	: Fatal if swallowed.
H301	: Toxic if swallowed.
H310	: Fatal in contact with skin.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H335	: May cause respiratory irritation.
H341	: Suspected of causing genetic defects.
H350	: May cause cancer.
H360	: May damage fertility or the unborn child.
H372	 Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
Full text of other abbre	eviations
Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard

Commission Regulation (EU) 2020/878



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

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Carc.		:	Carcinogenicity		
Eye Dam.		:	Serious eye damage		
Flam. Gas		:	Flammable gases		
Muta.		:	Germ cell mutagenicity		
Repr.		:	Reproductive toxicity		
Skin Corr.		:	Skin corrosion		
Skin Sens.		:	Skin sensitisation		
STOT RE		:	Specific target organ toxicity - repeated exposure		
STOT SE		:	Specific target organ toxicity - single exposure		
2004/37/EC		:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work		
AN 361		:	Norway. Directive on measures and limit values for physical and chemical factors in the work environment (biological limit values).		
FOR-2011-12-06-1358		:	Norway. Occupational Exposure limits		
2004/37/EC / STEL		:	Short term exposure limit		
2004/37/EC / TWA		:	Long term exposure limit		
FOR-2011-12-06-1358 / TWA		:	Long term exposi	ure limit	
FOR-2011-12-06-1358 / STEL		:	Short term expos	ure limit	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -



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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

Further information

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

Classification of the mixtur	Classification procedure:	
Skin Sens. 1	H317	Calculation method
Carc. 1B	H350	Calculation method

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.

NO / EN