

Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

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 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 safety data sheet

Company : MSD

20 Spartan Road

1619 Spartan, South Africa

Telephone : +27119239300

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 H317: May cause an allergic skin reaction.

Carcinogenicity, Category 1B H350: May cause cancer.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

Hazard statements : H317 May cause an allergic skin reaction.

H350 May cause cancer.

Precautionary 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 protec-

tion/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Antigen	Not Assigned		>= 50 - < 70
Formaldehyde	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. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A;	>= 0,2 - < 1



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

		H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335	
Thiomersal	54-64-8 200-210-4 080-004-00-7	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 1; H310 Repr. 1B; H360 STOT RE 1; H372 (Central nervous system, Cardio- vascular system, Gastrointestinal tract, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,0025 - < 0,025

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. 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, DO NOT induce vomiting.



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

Version **Revision Date:** SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

Get medical attention.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks May cause an allergic skin reaction.

May cause cancer.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod- : Carbon oxides

ucts

5.3 Advice for firefighters

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

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).



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

6.2 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.

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 containment 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 disposal 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.

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 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

environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye

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,



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

industrial hygiene monitoring, medical surveillance and the

use of administrative controls.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national

regulations.

Advice on common storage : Do not store with the following product types:

Strong oxidizing agents

Self-reactive substances and mixtures

Organic peroxides

Explosives Gases

7.3 Specific end use(s)

Specific 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	
Formaldehyde	50-00-0	OEL- ML	0,2 ppm	ZA OEL	
	Further information: Occupational Exposure Limits - Maximum Limits For				
	Hazardous Chemical Agents, dermal sensitisation, potential to produce der-				
	mal sensitisation, respiratory sensitisation, potential to produce respiratory				
		sensitisation, denotes carcinogenicity, which is based on GHS categorisation,			
	including category 1A, 1B				
		OEL - ML	0,6 ppm	ZA OEL	
	<u> </u>	STEL/C			
	Further information: Occupational Exposure Limits - Maximum Limits For				
	Hazardous Chemical Agents, dermal sensitisation, potential to produce der-				
	mal sensitisation, respiratory sensitisation, potential to produce respiratory				
	sensitisation, denotes carcinogenicity, which is based on GHS categorisation,				
	including category 1A, 1B				
		TWA	0,3 ppm 0,37 mg/m3	2004/37/EC	
	 	STEL	0,6 ppm	2004/37/EC	
		SILL	0,74 mg/m3	2004/37/20	
Thiomersal	54-64-8	OEL-RL	0,02 mg/m3	ZA OEL	
Thomas	34 04 0	OLLINE	(Mercury)	ZAOLL	
	Further information: danger of cutaneous absorption, Occupational Exposure				
	Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcino-				
	genicity, which is based on GHS categorisation, including category 1A, 1B				
		OEL- RL STEL/C	0,06 mg/m3	ZA OEL	
			(Mercury)		
	Further information: danger of cutaneous absorption, Occupational Exposure				
	Limits - Restricted Limits For Hazardous Chemical Agents, denotes carcino-				



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

genicity, which is based on GHS categorisation, including category 1A, 1B

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Glycerine	Workers	Inhalation	Long-term local effects	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 effects	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 effects	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	Environmental Compartment	Value
Glycerine	Fresh water	0,885 mg/l
	Marine water	0,0885 mg/l
	Intermittent use/release	8,85 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	3,3 mg/kg dry weight (d.w.)
	Marine sediment	0,33 mg/kg dry weight (d.w.)
	Soil	0,141 mg/kg dry weight (d.w.)
Formaldehyde	Fresh water	0,44 mg/l
	Freshwater - intermittent	4,44 mg/l
	Marine water	0,44 mg/l
	Sewage treatment plant	0,19 mg/l
	Fresh water sediment	2,3 mg/kg dry weight (d.w.)
	Marine sediment	2,3 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

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 : Work uniform or laboratory coat.

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

. Combined particulates, morganic gas/vapour and or

vapour type (AB-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : suspension Colour : white to off-white

Odour : odourless

Odour Threshold : No data available

pH : 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

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

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 artition coefficient: n- : Not applicable

Partition coefficient: n-octanol/water

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids) : No data available

Molecular weight : No data available

Particle size : Not applicable

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



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

Version **Revision Date:** SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of: Inhalation

Skin contact exposure

Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: > 2.000 mg/kg Acute oral toxicity

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

Components:

Formaldehyde:

Acute toxicity estimate: 100 mg/kg Acute oral toxicity

Method: Expert judgement

Acute toxicity estimate: 100 ppm Acute inhalation toxicity

> 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.



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

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:

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.

Components:

Formaldehyde:

Species : Rabbit

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Formaldehyde:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in hu-

mans

Germ cell mutagenicity

Not classified based on available information.

Components:

Formaldehyde:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: positive

Test Type: Chromosome aberration test in vitro



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

Result: positive

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Rat

Application Route: Inhalation

Result: positive

Germ cell mutagenicity- As-

sessment

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.

Components:

Formaldehyde:

Species : Rat

Application Route : inhalation (gas)
Exposure time : 28 Months
Result : positive

Carcinogenicity - Assess-

ment

Sufficient evidence of carcinogenicity in animal experiments

Thiomersal:

Species : Rat
Exposure time : 1 Years
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

Formaldehyde:

Effects on foetal develop-

Test Type: Embryo-foetal development

ment

Species: Rat Application Route: inhalation (gas)

Popult: pogotivo

Result: negative

Thiomersal:



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

Effects on foetal develop-

ment

Species: Rat

Application Route: Ingestion

Result: positive

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, and/or on development, based on animal experiments

STOT - single exposure

Not classified based on available information.

Components:

Formaldehyde:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

Formaldehyde:

Exposure routes : inhalation (gas)

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Thiomersal:

Target Organs : Central nervous system, Cardio-vascular system, Gastrointes-

tinal tract, Kidney

Assessment : Causes damage to organs through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

Formaldehyde:

Species : Rat

NOAEL : 6 ppm

LOAEL : 10 ppm

Application Route : inhalation (gas)

Exposure time : 28 Days

Thiomersal:

Species : Rat

LOAEL : >= 0,5 mg/kg Application Route : Ingestion

Remarks : Based on data from similar materials



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Formaldehyde:

Toxicity to fish : LC50 : 6,7 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia pulex (Water flea)): 5,8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): 4,89 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : 34,1 mg/l

Exposure time: 120 h

Toxicity to fish (Chronic tox-

icity)

NOEC: >= 48 mg/l Exposure time: 28 d

Species: Oryzias latipes (Orange-red killifish)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: >= 6,4 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Thiomersal:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 0,01 - 0,1 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0,01 - 0,1 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,01

- 0,1 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

M-Factor (Acute aquatic tox- :

icity)

10

Toxicity to daphnia and other : NOEC: > 0,001 - 0,01 mg/l



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

Species: Daphnia sp. (water flea)

Remarks: Based on data from similar materials

M-Factor (Chronic aquatic

toxicity)

10

12.2 Persistence and degradability

Components:

Formaldehyde:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 91 % Exposure time: 14 d

Method: OECD Test Guideline 301C

Remarks: Based on data from similar materials

12.3 Bioaccumulative potential

Components:

Formaldehyde:

Partition coefficient: n-

log Pow: 0,35

octanol/water

Remarks: Calculation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

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 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

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

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
IATA : 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
IATA : 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
IATA : 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
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version

are highlighted in the body of this document by two vertical

lines.

Full text of H-Statements

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 abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 27.11.2023

 3.1
 08.12.2023
 10876232-00008
 Date of first issue: 24.10.2022

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

ZA OEL : South Africa. The Regulations for Hazardous Chemical

Agents, Occupational Exposure Limits

2004/37/EC / STEL : Short term exposure limit 2004/37/EC / TWA : Long term exposure limit

ZA OEL / OEL- ML : Occupational Exposure Limit Maximum limit - 8- hour expo-

sure or equivalent (12 hour shifts).

ZA OEL / OEL - ML STEL/C : Occupational Exposure Limit Maximum limit - Short term oc-

cupational exposure limits / ceiling limits

ZA OEL / OEL-RL : Occupational Exposure Limit Restricted limit - 8- hour expo-

sure or equivalent (12 hour shifts)

ZA OEL / OEL- RL STEL/C : Occupational Exposure Limit Restricted limit - Short term oc-

cupational exposure limits / ceiling limits

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 -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN



Coopers Bovilis MH Single Shot RTU / MH + IBR Formulation

Version Revision Date: SDS Number: Date of last issue: 27.11.2023 3.1 08.12.2023 10876232-00008 Date of first issue: 24.10.2022

- 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 Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Classification of the mixture: 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.

ZA / EN