.EQVALAN DUO, OSOPA/ 1/15.5+77.5MG/G CZ EQVALAN DUO # ML CZ SK



Version

1.0

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04/07/2022

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SECTION 1. IDENTIFICATION

Product name

.EQVALAN DUO, OSOPA/ 1/15.5+77.5MG/G CZ EQVALAN

DUO # ML CZ SK

Product code

00000000000143043 00000000000143043

Synonyms : Zime

Zimectrin® Gold, Ivomec Comp Paste, Eqvalan Gold, Endox-

in, Furexel Combi Oral Paste, Molemec Plus with active ingredient: Ivermectin and Praziquantel

Manufacturer or supplier's details

Company name of supplier

Boehringer Ing. Pharma GmbH & Co.KG

Address

Binger Straße 173

Ingelheim 55216

Germany

Telephone

+498007790900

Prepared by

EHS-Services@Boehringer-Ingelheim.com

Emergency telephone num-

bo

Int. Emergency Telephone number: +1 703-527-3887

German Emergency Telephone number: +49800 1817059

Recommended use of the chemical and restrictions on use

Recommended use

: Veterinary product

Restrictions on use

Safety Data Sheet only for the professional user., For veteri-

nary use only, Refer to the product insert for complete instruc-

tions on usage

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral)

: Category 4

Eye irritation

Category 2A

Skin sensitisation

Category 1

Reproductive toxicity

Category 2

Effects on or via lactation

Specific target organ toxicity

: Category 1 (Central nervous system)

- repeated exposure (Oral)

GHS label elements



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Hazard pictograms





Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe mist or vapours.

P263 Avoid contact during pregnancy/ while nursing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

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

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.



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Other hazards

This drug is not subject to the labelling requirements under the Globally Harmonized System

The pharmacological effect of the medicament has to be considered (see package leaflet). This product does not contain titanium dioxide in its respirable form and would not be considered carcinogenic; however, upon crushing, grinding or other processing that could result in the generation of respirable particulates, the Category 2 carcinogenic classification would apply.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Mixture

Chemical nature

Mixture

Components

Components				
Chemical name	CAS-No.	Concentration (% w/w)		
Glycerol formal	Not Assigned	>= 70 - < 90		
praziguantel	55268-74-1	>= 5 - < 10		
titanium dioxide	13463-67-7	>= 1 - < 5		
Ivermectin	70288-86-7	>= 1 - < 5		

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

(show the package insert where possible).

First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Remove from exposure, lie down.

Take off immediately all contaminated clothing.

Victim to lie down in the recovery position, cover and keep him

warm.

If inhaled

Move to fresh air.

In case of skin contact

Wash off immediately with plenty of water.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes.

Keep eye wide open while rinsing.

If swallowed

Rinse mouth.

Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May cause an allergic skin reaction.

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

May cause harm to breast-fed children.

Causes damage to organs through prolonged or repeated

exposure if swallowed.



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Notes to physician

Observe the summary of product characteristics of proprietary

medicinal products
Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Water

Dry chemical

Foam

Carbon dioxide (CO2)

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

In case of fire and/or explosion do not breathe fumes.

Hazardous combustion prod- :

ucts

Carbon oxides

Further information

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

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

Complete suit protecting against chemicals

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Wear personal protective equipment.

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Pick up and transfer to properly labelled containers.

Absorb with liquid-binding material (sand, diatomite, acid

binders, universal binders).

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

No special protective measures against fire required.

Advice on safe handling

: Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage

: Refer to the product insert for instructions on storage.

Materials to avoid

Keep away from food, drink and animal feedingstuffs.



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Observe joint storage prohibition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Basis	Category	Values	Remarks
Ivermectin 70288-86-7	BIEL	3A	10 μg/m3	
	BIPC	3		

Abbreviations:

BIEL = Boehringer Ingelheim Exposure Limit (internal value)

BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit)

BIPC = Boehringer Ingelheim Pregnancy Category

BIPC 3: There is evidence in animals and/or humans or the mechanism of actions indicates that the compound has the potential to cause harm to the unborn. Harm to the unborn can occur even if exposure does not exceed the BIEL value.

Components	Basis	Category	Values	Remarks
Praziquantel 55268-74-1	BIEL	ЗА	300 µg/m3	
	BIPC	1a		

Abbreviations:

BIEL = Boehringer Ingelheim Exposure Limit (internal value)

BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit)

BIPC = Boehringer Ingelheim Pregnancy Category

BIPC 1a: No risk of harm to the unborn is to be expected, when the exposure does not exceed the BIEL value. Available data in animals and/or humans indicate that the compound does not pose a special risk to the unborn.

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWÁ	10 mg/m3 (Titanium dioxide)	ACGIH

Engineering measures

Local exhaust

Emergency sprinkling nozzle

Personal protective equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.



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Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate

protection.

Hand protection Material

Nitrile rubber

Remarks

The break through time depends amongst other things on the material, the thickness and the type of glove and therefore

has to be measured for each case.

Eye protection

Safety glasses with side-shields

(Not necessary when using full face mask)

Skin and body protection

Laboratory: laboratory coat; Factory: disposable Overall.

Protective measures

Handle in accordance with good industrial hygiene and safety

practice.

Do not breathe dust.

Avoid contact with skin, eyes and clothing.

Only use protective equipment in accordance with national/international regulations. Follow the national regulations about wearing personal protective equipment and the warran-

ty given by the manufacturer for the safe function.

Hygiene measures

General industrial hygiene practice.

Wash hands and face before breaks and immediately after

handling the product.

Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

paste

Colour

orange

Odour

amine-like

Odour Threshold

No data available

pН

No data available

Melting point/range

Not applicable

Boiling point/boiling range

No data available



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Flash point

No data available

Evaporation rate

No data available

Flammability (solid, gas)

Not applicable

Self-ignition

No data available

Upper explosion limit / Upper

No data available

flammability limit

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure

No data available

Relative vapour density

No data available

Relative density

No data available

Density

No data available

Bulk density

Not applicable

Solubility(ies)

Water solubility

immiscible

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

No data available

Explosive properties

Not explosive

Oxidizing properties

No data available

Particle size

Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

No decomposition if stored and applied as directed.



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Possibility of hazardous reac- :

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition

products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity

Acute toxicity estimate: 1,407 mg/kg

Method: Calculation method

Acute inhalation toxicity

Acute toxicity estimate: 146.14 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity

: Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

Glycerol formal:

Acute oral toxicity

: LD50 (Rat): > 3,000 mg/kg

Acute inhalation toxicity

Remarks: No data available

Acute dermal toxicity

Remarks: No data available

praziquantel:

Acute oral toxicity

: LD50 (Rat): 2,248 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 (Mouse): 2,454 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 (Rabbit): 1,050 mg/kg

Acute inhalation toxicity

Remarks: No data available

Acute dermal toxicity

LD50 (Rabbit): > 2,000 mg/kg



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titanium dioxide:

Acute oral toxicity

LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

Acute inhalation toxicity

LC50 (Rat, male): > 6.82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity

LD50 (Rabbit): > 10,000 mg/kg

Ivermectin:

Acute oral toxicity

: LD50 (Rat, male): = 42.8 mg/kg

LD50 (Rat, female): = 44.3 mg/kg

LD50 (Mouse, male): = 11.6 mg/kg

Acute inhalation toxicity

LC50 (Rat): 5.11 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity

: LD50 (Rabbit, male and female): = 406 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Glycerol formal:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

praziquantel:

Species

Rabbit

Method

: OECD Test Guideline 404

Result

No skin irritation

titanium dioxide:

Species

Rabbit

Method

OECD Test Guideline 404

Result

No skin irritation

Ivermectin:

Species

Rabbit

Result

: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.



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Components:

Glycerol formal:

Result

: Irritation to eyes, reversing within 21 days

praziquantel:

Species

Rabbit

Result

No eye irritation

titanium dioxide:

Species

Rabbit

Result

No eye irritation

Method

OECD Test Guideline 405

Ivermectin:

Species

Rabbit

Result

Slightly irritating.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Glycerol formal:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

praziquantel:

Test Type

modified Buehler test

Species

Guinea pig

Method

OECD Test Guideline 406

Result

Does not cause skin sensitisation.

titanium dioxide:

Test Type

Mouse Local Lymph Node Assay (LLNA)

Species

Mouse

Method

OECD Test Guideline 429

Result

: Does not cause skin sensitisation.

Species

Guinea pig

Method

OECD Test Guideline 406

Result

Does not cause skin sensitisation.



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Ivermectin:

Test Type Species : Buehler test : Guinea pig

Result

: May cause sensitisation by skin contact.

Test Type

Mouse Local Lymph Node Assay (LLNA)

Species

: Mouse

Result

Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

Glycerol formal:

Genotoxicity in vitro

Remarks: Not classified due to data which are conclusive

although insufficient for classification.

Genotoxicity in vivo

Remarks: Not classified due to data which are conclusive

although insufficient for classification.

praziquantel:

Genotoxicity in vitro

Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 0 - 1000 µg/plate

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Test Type: Micronucleus test

Species: Mouse

Application Route: Oral Dose: 300, 600 mg/kg/day

Result: negative

Test Type: Micronucleus test

Species: Rat

Dose: 600 mg/kg/day Result: negative

titanium dioxide:

Genotoxicity in vitro

Test Type: Ames test

Concentration: 100-200 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Concentration: 31 - 500 ug/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative



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Test Type: Chromosome aberration test in vitro

Concentration: 125- 2500 ug/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo

Test Type: Micronucleus test Species: Mouse (male) Application Route: Inhalation Dose: 0,8; 7,2; and 28,5 mg/m3 Method: OECD Test Guideline 474

Result: negative

Test Type: Micronucleus test Species: Rat (male and female)

Application Route: Oral

Dose: 500; 1.000; and 2.000 mg/kg bw Method: OECD Test Guideline 474

Result: negative

Ivermectin:

Genotoxicity in vitro

Test Type: Ames test

Test system: Salmonella typhimurium

Concentration: 2000 µg/plate

Result: negative

Test Type: Mouse lymphoma assay

Concentration: 1000 µg/ml

Result: negative

Test Type: Unscheduled DNA synthesis

Test system: fibroblast cell line Concentration: 1000 μg/ml

Result: negative

Genotoxicity in vivo

Test Type: Micronucleus test

Species: Rat

Application Route: Oral Dose: 20 mg/kg/day Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Glycerol formal:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.



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praziquantel:

Species

Rat

Exposure time

104 weeks

Dose

100 and 250 mg/kg body weight

Remarks

: Did not show carcinogenic effects in animal experiments.

Species

Hamster

Exposure time

80 weeks

Dose

100 and 250 mg/kg body weight

Remarks

Did not show carcinogenic effects in animal experiments.

Ivermectin:

Species

Mouse

Exposure time

2 Years

Dose

10 mg/kg/day

Remarks

Did not show carcinogenic effects in animal experiments.

Species

Rat, male

Application Route

Oral

Exposure time

2 Years

Dose

9 mg/kg/day

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

Species

Rat, female

Application Route

Oral

Exposure time

2 Years 9 mg/kg/day

Dose Remarks

Did not show carcinogenic effects in animal experiments.

IARC

No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

May cause harm to breast-fed children.

Components:

Glycerol formal:

Effects on fertility

Remarks: Not classified due to data which are conclusive

although insufficient for classification.

Effects on foetal develop-

ment

: Remarks: Not classified due to data which are conclusive

although insufficient for classification.



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Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

praziquantel:

Effects on fertility

Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 30,100,300 milligram per kilogram

General Toxicity - Parent: NOEL: 300 mg/kg body weight

Fertility: NOEL: 300 mg/kg body weight

Early Embryonic Development: NOEL: 300 mg/kg body weight Result: No effects on fertility and early embryonic develop-

ment were detected.

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral

Dose: 33, 100, 300 milligram per kilogram

General Toxicity Maternal: NOEL: 300 mg/kg body weight Embryo-foetal toxicity: NOEL: 300 mg/kg body weight Symptoms: No effects on embryofoetal and postnatal devel-

opment

Test Type: Pre-/postnatal development

Species: Rat

Application Route: Oral

Dose: 30, 100, 300 milligram per kilogram

General Toxicity Maternal: NOEL: 300 mg/kg body weight

Teratogenicity: NOEL: 300 mg/kg body weight

Embryo-foetal toxicity: NOEL: 300 mg/kg body weight

Test Type: Embryo-foetal development

Species: Rabbit Application Route: Oral

Dose: 100, 300 milligram per kilogram Symptoms: Reduced body weight Result: No teratogenic effects

Ivermectin:

Effects on fertility

Test Type: Fertility/early embryonic development

Species: Rat

Application Route: Oral Dose: 0.1, 1, 9 mg/kg/day

General Toxicity - Parent: NOEL: 1 mg/kg body weight

Fertility: NOEL: 1 mg/kg body weight

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Mouse Application Route: Oral

Dose: 0.1; 0.2; 0.4; 0.8 mg/kg/day

General Toxicity Maternal: NOEL: 0.1 mg/kg body weight Embryo-foetal toxicity: NOEL: 0.2 mg/kg body weight



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Result: Teratogenic effects

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral Dose: 1.5; 4; 12 mg/kg/day

General Toxicity Maternal: NOAEL: 4 mg/kg body weight Embryo-foetal toxicity: NOAEL: 4 mg/kg body weight

Result: Teratogenic effects

Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Oral Dose: 1.5; 3; 6 mg/kg/day

General Toxicity Maternal: NOEL: 3 mg/kg body weight Embryo-foetal toxicity: NOEL: 1.5 mg/kg body weight

Result: Teratogenic effects

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Effects on or via lactation

STOT - single exposure

Not classified based on available information.

Components:

Glycerol formal:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

praziquantel:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

Ivermectin:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

STOT - repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.

Components:

Glycerol formal:

Remarks

Not classified due to data which are conclusive although insuf-

ficient for classification.

praziquantel:

Remarks

Not classified due to data which are conclusive although insuf-



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ficient for classification.

Ivermectin:

Exposure routes

Ingestion

Target Organs

Central nervous system

Assessment

The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

praziquantel:

Species

NOAEL

Application Route

Exposure time

Oral 4 weeks

33 mg/kg

Rat

Dose

33, 100, 300 mg/kg/day

Species

Application Route

Rat Oral

Exposure time

4 weeks

Dose

33, 100, 300, 1000 mg/kg/day

Symptoms

No symptoms known or expected.

Species

Rabbit 500 mg/kg

NOAEL Application Route

Dermal

Exposure time

3 weeks

Dose

500 mg/kg/day (5 days per wee)

Ivermectin:

Species

Mouse

NOAEL

10 mg/kg

Dermal

Application Route

Exposure time

13 weeks

Dose

1, 3, 10 mg/kg/day

Remarks

No significant adverse effects were reported

Species

Rat

NOAEL

3 mg/kg

Application Route

Oral

Exposure time

13 weeks

Dose

0.1, 0.3, 1.0, 3.0 mg/kg/day

Species

Dog

NOAEL

0.5 mg/kg

Application Route

Oral

Exposure time

13 weeks

Dose

: 0.1, 0.25, 0.5, 1.5 mg/kg/day



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Aspiration toxicity

Not classified based on available information.

Components:

Glycerol formal:

Not classified due to data which are conclusive although insufficient for classification.

praziquantel:

No data available

Ivermectin:

No data available

Further information

Components:

Ivermectin:

Remarks

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Glycerol formal:

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

Toxicity to fish (Chronic tox-

icity)

Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Remarks: No data available

Toxicity to microorganisms

: Remarks: No data available

praziquantel:

Toxicity to fish

LC50 (Fish): 13.4 mg/l

Exposure time: 24 h

LC50 (Fish): 55.1 mg/l



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Exposure time: 24 h

LC50 (Fish): 49.7 mg/l Exposure time: 96 h

LC50 (White amur; Grass carp): 63.4 mg/l

Exposure time: 24 h

LC50 (White amur; Grass carp): 60.6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 35 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants

Remarks: No data available

Toxicity to fish (Chronic tox-

Remarks: No data available

icity)

Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)

Toxicity to microorganisms

Remarks: No data available

(activated sludge): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

titanium dioxide:

Toxicity to fish

LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

Ivermectin:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0053 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.000013 mg/l

End point: Immobilization Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 4

mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201



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Lowest Observed Effect Concentration (Pseudokirchneriella

subcapitata (green algae)): 1.25 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.391

mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic toxicity)

Remarks: No data available

Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)

EC50 (Hyalella azteca (Amphipod)): 0.0017 mg/l

Exposure time: 10 d

NOEC (Hyalella azteca (Amphipod)): 0.00021 mg/l

Exposure time: 10 d

Toxicity to microorganisms

Remarks: No data available

Toxicity to soil dwelling organisms

Test Type: artificial soil

EC50 (Eisenia fetida (earthworms)): 5.3 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

Test Type: artificial soil

NOEC (Eisenia fetida (earthworms)): 2.5 mg/kg

Exposure time: 56 d

Method: OECD Test Guideline 222

Persistence and degradability

Components:

Glycerol formal:

Biodegradability

Result: Readily biodegradable.

praziquantel:

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301D

titanium dioxide:

Biodegradability

Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

Ivermectin:



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Biodegradability

Result: Persistent substance with a half life of more than 60

days.

Bioaccumulative potential

Components:

Glycerol formal:

Bioaccumulation

: Remarks: No data available

Partition coefficient: n-

octanol/water

: Remarks: No data available

praziquantel:

Bioaccumulation

: Remarks: No appreciable bioaccumulation potential is to be

expected (log P(o/w) 1-3).

Partition coefficient: n-

octanol/water

: log Pow: 2.42

titanium dioxide:

Partition coefficient: n-

octanol/water

: Remarks: No data available

Ivermectin:

Bioaccumulation

: Species: Danio rerio (zebra fish)

Bioconcentration factor (BCF): 63 - 111 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 3.22 (68 °F / 20 °C)

Mobility in soil

Components:

Glycerol formal:

Distribution among environmental compartments Remarks: No data available

praziquantel:

Distribution among environmental compartments Remarks: No data available

Ivermectin:

Distribution among environ-

mental compartments

: log Koc: 3.6 - 4.4



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Other adverse effects

Product:

Ozone-Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Components:

praziquantel:

Additional ecological infor-

mation

: No data available

Ivermectin:

Results of PBT and vPvB

assessment

Persistent and Toxic

Additional ecological infor-

mation

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Dispose of in accordance with local regulations.

Contaminated packaging

Packs that cannot be cleaned should be disposed of in the

same manner as the contents.

Uncontaminated packaging can be recycled.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.

UN 3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.

(Ivermectin)

Class

9

Packing group

Ш

Labels Packing instruction (cargo Miscellaneous Dangerous Goods 964

aircraft)

Packing instruction (passen-

964

ger aircraft)

Environmentally hazardous

yes

IMDG-Code



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UN number

UN 3082

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Ivermectin)

Class

9 Ш

Packing group Labels

9 F-A, S-F

EmS Code

Marine pollutant

yes

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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number

UN 3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.

(Ivermectin)

Class

9

Packing group

Ш

Labels

CLASS 9

ERG Code

171

Marine pollutant

yes

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards

Acute toxicity (any route of exposure)

Respiratory or skin sensitisation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Serious eye damage or eye irritation

SARA 313

This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

titanium dioxide	13463-67-7
	25013-16-5
tert-butyl-4-methoxyphenol	25013-10-3

Pennsylvania Right To Know

aina ragin re raise		
Glycerol formal	Not Assigned	
praziquantel	55268-74-1	
Klucel EXF Pharm	9004-64-2	
Castor oil, hydrogenated	8001-78-3	
	13463-67-7	
titanium dioxide		

Maine Chemicals of High Concern

	05040 40 5
tert-butyl-4-methoxyphenol	25013-16-5
tert-putyr-4-metroxyphonor	

Vermont Chemicals of High Concern

tert-butyl-4-methoxyphenol 25013-16-5

Washington Chemicals of High Concern

tert-butyl-4-methoxyphenol 25013-16-5

California Prop. 65

WARNING: This product can expose you to chemicals including tert-butyl-4-methoxyphenol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Permissible Exposure Limits for Chemical Contaminants

titanium dioxide 13463-67-7

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

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory



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	DSL		•	This product contains the following components that are not on the Canadian DSL nor NDSL.	
				praziquantel	
				Klucel EXF Pharm	ı.
				Glycerol formal	
	ENCS		:	Not in compliance	with the inventory
	ISHL		:	Not in compliance	with the inventory
	KECI		:	Not in compliance	with the inventory
	PICCS		;	Not in compliance	with the inventory
	IECSC		:	Not in compliance	with the inventory
	NZIoC		:	Not in compliance	with the inventory
	TECI		:	Not in compliance	with the inventory
	TSCA list No substances are subject to a Significant New Use Rule.				

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information



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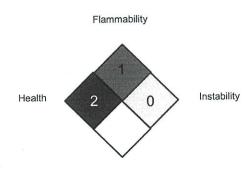
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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH

USA. ACGIH Threshold Limit Values (TLV)

OSHA PO

USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values

OSHA Z-1

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA OSHA P0 / TWA 8-hour, time-weighted average 8-hour time weighted average

OSHA Z-1 / TWA

8-hour time weighted average 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 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, Bioaccumu-



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lative 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 Safety Data

data.

The specifications are based on own tests and/or literature

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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