

SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Checkmite (TM) Bee Hive Pest Control Strip

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Biocidal product
Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company

KVP Pharma+Veterinär-Produkte GmbH

Projensdorfer Str. 324

D-24106 KIEL

Tel.: +49 (0) 214 30 46440

Mail: msds@bayerhealthcare.com

1.4 Emergency telephone number

In case of emergency: +49 (0) 214 30 99300 (Sicherheitszentrale Bayer)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-Classification (according to EC 1272/2008):

Acute toxicity, Oral, Category 3 (H301)

Hazardous to the aquatic environment, Category 2 (H411)

Classification (67/548/EEC, 1999/45/EC):

Very toxic

Dangerous for the environment

Very toxic if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

GHS-Labeling (according to EC 1272/2008):



Danger

Hazard statements:

SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

- ||| H301 Toxic if swallowed.
- ||| H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

- ||| P264 Wash skin thoroughly after handling.
- ||| P270 Do not eat, drink or smoke when using this product.
- ||| P273 Avoid release to the environment.

Response:

- ||| P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- ||| P391 Collect spillage.

Disposal:

- ||| P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

56-72-4 Coumaphos Technical

Labelling according to EC Directives:

Labelling in accordance of directive CLP.



R-phrases)

R28 Very toxic if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases)

S22 Do not breathe dust.
S28 After contact with skin, wash immediately with plenty of water.
S35 This material and its container must be disposed of in a safe way.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

56-72-4 Coumaphos Technical

2.3 Other hazards

Other hazards which do not result in classification:

None known.

SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture within the meaning of Regulation (EC) No. 1907/2006.

Hazardous components

Coumaphos Technical

Concentration [Weight percent] ≥ 10 - < 20

CAS-No.: 56-72-4

CAS name: Phosphorothioic acid, O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl ester

EINECS-No.: 200-285-3

Synonyms: Asuntol

Index-No.: 015-038-00-3

EU - Classification:



Very toxic R28



Harmful R21



Dangerous for the environment R50/53

GHS Classification:



Acute Tox. 2 H300

Acute Tox. 3 H311

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

M-Factor: 1

contains

PVC - Powder

Concentration [Weight percent] 70 - 90

CAS-No.: 9002-86-2

CAS name: Ethene, chloro-, homopolymer

EINECS-No.: 618-338-8

Synonyms: PVC Homopolymer, Vestolit S 7054, Solvin®271 PC, Superkleen 2223C-70

Titanium oxide

Concentration [Weight percent] 0.5 - 2.5

CAS-No.: 13463-67-7

CAS name: Titanium oxide

EINECS-No.: 236-675-5

Synonyms: Anatase, E 171, Rutil, Brookit



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

For the full text of the H+R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important acute symptoms/effects

Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Any

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution of: Hydrogen chloride gas Chlorine gas Oxides of phosphorus Sulphur oxides Carbon oxides

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

5.3 Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Additional advice: Avoid dust formation.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling:

Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

For storage suitable stores with adequate product-reception volume must be used. During handling local official regulations must be observed in order to avert impairment of water by the product.

7.3 Specific end use(s)

No statements available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters (Europe)

Substance	CAS-No.	Basis	Type:	Value	Ceiling Limit Value	Remarks
PVC - Powder	9002-86-2	EH40 WEL	VLA-ED	4 mg/m ³		Respirable dust.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

PVC - Powder	9002-86-2	EH40 WEL	VLA-ED	10 mg/m3		Inhalable dust.
Titanium oxide	13463-67-7	EH40 WEL	VLA-ED	4 mg/m3		Respirable.
Titanium oxide	13463-67-7	EH40 WEL	VLA-ED	10 mg/m3		Inhalable

Components with workplace control parameters (internationally)

Substance	CAS-No.	Basis	Type:	Value	Ceiling Limit Value	Remarks
Titanium oxide	13463-67-7	EH40 WEL	VLA-ED	10 mg/m3		Inhalable
Titanium oxide	13463-67-7	EH40 WEL	VLA-ED	4 mg/m3		Respirable.

8.2 Exposure controls

Personal protective measures:

Respiratory protection:

Recommended respiratory protection: full mask with filter ABEK-ST (ABEK-P3)

Hand protection:

Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

Eye protection:

Safety glasses

Hygiene measures:

Cleanliness Guidelines (GMP) for manufacturing of drugs must be observed!

Other protective measures:

Wear suitable protective equipment.

The personal protective equipment is applicable for the handling of bulk material without packaging and for incidents if an exposure by the active ingredient or hazardous components can be expected.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form: solid, powder



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

Colour:	white
Odour:	weak
Melting point/range:	No statements available.
Boiling point/boiling range:	No statements available.
Density:	No statements available.
Bulk density:	No statements available.
Vapour pressure:	No statements available.
Viscosity, dynamic:	No statements available.
Viscosity, kinematic:	No statements available.
Flow time:	No statements available.
Surface tension:	No statements available.
Water solubility:	insoluble
Solubility(ies):	No statements available.
pH:	No statements available.
Partition coefficient (n-octanol/water):	No statements available.
pH:	No statements available.
Auto-flammability:	No statements available.
Flash point:	Not applicable
inflammability (solid, gaseous):	No statements available.
Explosion limits:	No statements available.

9.2 Other information

Miscibility with water:	Not applicable
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10. STABILITY AND REACTIVITY

10.1 Reactivity

No statements available.

reaction with Water / Air

No statements available.

Ignition temperature:

Coumaphos Technical

330 °C

Burning number:

No statements available.

Flammability (solid, gas):



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

No statements available.

10.2 Chemical stability

No statements available.

Thermal decomposition:

no data available

Dust explosion characteristic number:

GLP: No information available.

Dust explosion class:

no data available

Explosive properties:

No statements available.

Impact Sensitivity:

no data available

Hazardous reactions:

None known.

10.3 Possibility of hazardous reactions

deflagration ability:

No statements available.

Smoldering combustion:

No statements available.

10.4 Conditions to avoid

Do not allow product to come in contact with:

Heat.

Exposure to moisture.

Oxidizing properties:

No statements available.

Minimum ignition energy:

no data available

10.5 Incompatible materials

Materials to avoid:

Strong oxidizing agents, Bases

10.6 Hazardous decomposition products

Hydrogen chloride gas, Chlorine gas, Oxides of phosphorus, Sulphur oxides, Carbon oxides



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

Further information:

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity:

Checkmite (TM) Bee Hive Pest Control Strip

Acute toxicity estimate (ATE) 130 mg/kg

Toxic if swallowed.

Method: Calculation method

Coumaphos Technical

LD50 rat: 13 mg/kg

Acute inhalation toxicity:

Coumaphos Technical

rat: 0.34 - 1.08 mg/l, 1 h

Acute dermal toxicity:

Checkmite (TM) Bee Hive Pest Control Strip

Acute toxicity estimate (ATE) > 2,000 mg/kg

May be harmful in contact with skin.

Method: Calculation method

rat: > 2,000 mg/kg

Coumaphos Technical

LD50 rat: 860 mg/kg

LD50 rabbit: 500 mg/kg

Acute toxicity (other routes of administration):

Coumaphos Technical

LD50 intraperitoneal rat: 7500 µg/kg

Corrosivity:

No statements available.

Skin irritation:

Checkmite (TM) Bee Hive Pest Control Strip

TiO₂ pigments are not irritant but as with all fine powders can adsorb moisture and natural oils from the surface of the skin during prolonged exposure.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

Skin irritation:

Coumaphos Technical

rabbit

Result: Mild skin irritation

Eye irritation:

Coumaphos Technical

rabbit

Result: Mild eye irritation

Sensitisation:

Coumaphos Technical

guinea pig

Result: Does not cause skin sensitization.

Subacute, subchronic and prolonged toxicity:

No statements available.

STOT - single exposure:

No statements available.

STOT - repeated exposure:

No statements available.

Aspiration toxicity:

No statements available.

Genotoxicity in vitro:

No statements available.

Genotoxicity in vivo:

No statements available.

Carcinogenicity:

No statements available.

Fertility:

No statements available.

Developmental toxicity:

No statements available.

Human experience:

No statements available.

Neurological symptoms:

No statements available.

Pharmaceutic effects:

Coumaphos Technical

Antiparasitic agent



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Coumaphos Technical

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

12.1 Toxicity

Toxicity to fish:

Coumaphos Technical

LC50 0.18 mg/l

Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Coumaphos Technical

EC50 0.000192 mg/l

Test species: Daphnia Duration of test: 48 h

Toxicity to algae:

Coumaphos Technical

Cell multiplication inhibition test EbC50 0.2 mg/l

Test species: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Cell multiplication inhibition test ErC50 0.61 mg/l

Test species: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Cell multiplication inhibition test NOEbC 0.115 mg/l

Test species: Desmodesmus subspicatus (green algae)

Cell multiplication inhibition test NOErC 0.115 mg/l

Test species: Desmodesmus subspicatus (green algae)

Toxicity to bacteria:

No statements available.

Toxicity to fish (Chronic toxicity):

No statements available.

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

No statements available.

Toxicity on soil-dwelling organisms:

No statements available.

Toxicity on other terrestrial non-mammal:

No statements available.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

12.2 Persistence and degradability

Biodegradability:

Coumaphos Technical

1 %, 28 d Not readily biodegradable.

Biochemical Oxygen Demand (BOD):

No statements available.

Chemical Oxygen Demand (COD):

No statements available.

BSB in proportion to CSB:

No statements available.

Dissolved organic carbon (DOC):

No statements available.

Adsorbed organic bound halogens (AOX):

Coumaphos Technical

The product contains organic halogens.

Theoretical biological oxygen requirement:

No statements available.

BSB in proportion to ThSB:

No statements available.

Total organic carbon (TOC):

No statements available.

Physico-chemical removability:

No statements available.

Stability in water:

No statements available.

Additional degradation pathways:

No statements available.

Photodegradation:

No statements available.

M-Factor:

Coumaphos Technical

1

12.3 Bioaccumulative potential

Bioaccumulation:

No statements available.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

Partition coefficient (n-octanol/water):

No statements available.

12.4 Mobility in soil

Environmental distribution:

No statements available.

Surface tension:

No statements available.

Stability in soil:

No statements available.

12.5 Results of PBT and vPvB assessment

No statements available.

12.6 Other adverse effects

General advice:

Checkmite (TM) Bee Hive Pest Control Strip

Do not allow to enter surface waters or groundwater.

Coumaphos Technical

Do not allow to enter surface waters or groundwater.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Transport to suitable incinerator with reduced non-air emission.

Contaminated packaging: Contaminated, empty containers are to be treated in the same way as the contents.

14. TRANSPORT INFORMATION

ADR/RID

- | | | |
|--------------------------------|---|--|
| 14.1 UN Number | : | 2783 |
| 14.2 Description of the goods | : | ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (COUMAPHOS) |
| 14.3 Hazard identification No | : | 60 |
| 14.4 Packaging group | : | III |
| Dangerous goods labels | : | 6.1 |
| 14.5 Environmentally hazardous | : | yes |



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

IATA

14.1 UN Number : 2783
14.2 Description of the goods : ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC
(COUMAPHOS)
14.3 Class : 6.1
14.4 Packaging group : III
Dangerous goods labels : 6.1
14.5 Environmentally : yes
hazardous

IMDG

14.1 UN Number : 2783
14.2 Description of the goods : ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC
(COUMAPHOS)
14.3 Class : 6.1
14.4 Packaging group : III
IMDG-Labels : 6.1
14.5 Marine Pollutant : yes

14.6 Special precautions for user

For personal protection see section 8.

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

not applicable

Limited quantity regulations applicable in accordance with chapter 3.4 RID/ADR in compliance with threshold value.

Other information : Slightly toxic Environmentally hazardous substance
Keep dry
Keep separated from foodstuffs

15. REGULATORY INFORMATION

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

National legislation

Other regulations:

No statements available.



SAFETY DATA SHEET according to Regulation (EC) No.
1907/2006

122000002321

Checkmite (TM) Bee Hive Pest Control Strip

Version 3.1

Revision Date 27.05.2014

Print Date 28.05.2014

15.2 Chemical Safety Assessment

No statements available.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R21	Harmful in contact with skin.
R28	Very toxic if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements mentioned in chapters 2 and 3

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

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.