

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **EFFECT MICROTECH CS**

Creation date: **11.7.2014**

Revision: **12.1.2015**

Version: 1



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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product name:

EFFECT MICROTECH CS

Synonyms

MICROTECH CS

1.2. USE OF THE SUBSTANCE/PREPARATION

Use:

Insecticide (microencapsulated concentrate) against crawling insects such as ants and cockroaches. Biocide product type PT18.

Uses advised against:

To be used only in accordance with instructions provided on the product label.
Any other use is prohibited.

1.3. COMPANY/UNDERTAKING IDENTIFICATION

Supplier

UNICHEM D.O.O.
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1.4. EMERGENCY TELEPHONE

Emergency:

112

Supplier:

+386 1 755 81 50

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of substance/preparation

Classification according to Reg. 1272/2008

Skin Sens. 1; H317 May cause an allergic skin reaction.
Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

Classification according to directive 67/548/EEC or. 99/45/EC

Xi; R43 May cause sensitisation by skin contact.
N; R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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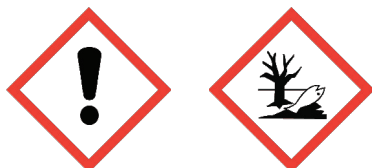
Version: **1**



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2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Warning**

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

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

P273 Avoid release to the environment.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P501 Dispose of contents/container in accordance with local regulation.

2.2.2. Contains:

Permethrin (ISO)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Chemical name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification according to directive 67/548/EEC or 99/45/EC	REACH reg. number
Piperonyl butoxide	51-03-6 200-076-7 -	8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	N; R50/53	01-2119537431-46
Permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	8	Acute Tox. 4; H302 Skin Sens. 1; H317 Acute Tox. 4; H332 Aquatic Acute 1; H400 [M=1.000] Aquatic Chronic 1; H410 [M=1.000]	Xn; R20/22 Xi; R43 N; R50/53	-
Tetramethrin	7696-12-0 231-711-6 -	4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	N; R50/53	-

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SECTION 4. FIRST AID MEASURES

4.1. First-aid measures

General measures:

Never give anything by mouth to an unconscious person.

Skin contact:

Take off all contaminated clothing. Wash thoroughly with plenty of water and soap! If symptoms persist seek medical attention.

Eye contact:

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical help.

Inhalation:

Remove patient to fresh air-move out of dangerous area. If symptoms occur it is necessary to search for medical help.

Ingestion:

Do not induce vomiting. Rinse mouth with water. In case of doubt or if feeling unwell seek medical help. Show the physician the Safety Data Sheet or label.

4.2. Symptoms

Skin contact:

May cause sensitisation by skin contact.

Eye contact:

-

Inhalation:

-

Ingestion:

-

4.3. Indication of any immediate medical attention and special treatment needed

-

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.

Unsuitable extinguishing media

Full water jet.

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

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5.3. Advice for firefighters

Protective actions

Cool containers at risk with water spray jet. If possible remove containers from endangered area. Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective clothing for fire-fighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137) .

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation.

6.1.2. For emergency responders

-

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

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6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it according to valid regulations on handling with waste. After all practical dry cleanup has been done, any residual contamination can be flushed with plenty of water.

6.3.3. Other information

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6.4. Reference to other sections

See also sections 8 and 13.

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SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

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Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Keep in cool and good ventilated area. Keep away from food, drink and animal feedingstuffs Keep out of the reach of children.

7.2.2. Packaging materials

-

7.2.3. Requirements for storage rooms and vessels

-

7.2.4. Storage class

-

7.2.5. Further information on storage conditions

-

7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational Exposure limit values

No information



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Product name: **EFFECT MICROTECH CS**Creation date: **11.7.2014**Revision: **12.1.2015**Version: **1**

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3. DNEL values

No information

8.1.4. PNEC values

No information

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices-wash hands at breaks and when done working with material.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in the area with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection. (EN 166)

Hand protection

Protective gloves (EN 374).

Appropriate materials

Material	Thickness	Penetration Time	Remark
PVC	mm	480 min	

Skin protection

Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear mask with filter FFP2 (EN 149).

Thermal hazards

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8.2.3. Environmental exposure controls

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

-	Physical state:	liquid
-	Colour:	white
-	Odour:	characteristic

Important health, safety and environmental information

-	pH	No information
-	Melting point	No information
-	Boiling point/boiling range	No information
-	Flashpoint	No information
-	Evaporation rate	No information
-	Ignition temperature	No information
-	Explosion limits (vol%)	No information
-	Vapour pressure	No information
-	Vapour density	No information
-	Density	Density: 0,9 — 1,05 g/cm ³
-	Solubility	Water: Soluble
-	Partition coefficient n-octanol/water (log Kow)	No information
-	Auto-ignition temperature	No information
-	Decomposition temperature	No information
-	Viscosity	No information
-	Explosive properties	No information
-	Oxidising properties	No information

9.2. Other information

-	Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

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10.2. Chemical stability

Product is stable under normal conditions according to handling and storage.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, free sparks. Do not expose to temperatures exceeding 35°C.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In case of fire/explosion vapours dangerous for health are spread.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects11.1.1. Acute toxicity**For components**

Chemical name	exp. route	Type	species	Time	value	Method	Remark
Piperonyl butoxide (51-03-6)	oral	LD ₅₀	rat		4570 mg/kg		
Piperonyl butoxide (51-03-6)	dermal	LD ₅₀	rabbit		> 2000 mg/kg		
Piperonyl butoxide (51-03-6)	inhalation	LC ₅₀	rat	4 h	> 5,9 mg/m ³		
Permethrin (ISO) (52645-53-1)	oral	LD ₅₀	rat		> 2000 mg/kg		
Permethrin (ISO) (52645-53-1)	dermal	LD ₅₀	rat		> 2000 mg/kg		
Permethrin (ISO) (52645-53-1)	inhalation	LC ₅₀	rat	4 h	> 0,45 mg/l		
Tetramethrin (7696-12-0)	oral	LD ₅₀	rat		> 2000 mg/kg		
Tetramethrin (7696-12-0)	dermal	LD ₅₀	rat		> 2000 mg/kg		
Tetramethrin (7696-12-0)	inhalation	LC ₅₀	rat		> 5,63 mg/m ³		

11.1.2. Skin corrosion/irritation, serious eye damage/irritation, aspiration hazard

No information

11.1.3. Respiratory or skin sensitisation

No information

11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity**Carcinogenicity**

No information

(Germ cell) mutagenicity

No information

Reproductive toxicity

No information

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Summary of evaluation of the CMR properties

No information

11.1.5. STOT-single and repeated exposure

No information

SECTION 12. ECOLOGICAL INFORMATION**12.1. Toxicity**12.1.1. Acute (short-term) toxicity**For components**

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
Piperonyl butoxide (51-03-6)	LC ₅₀	3,94 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>		
	EC ₅₀	0,51 mg/L	48 h	crustaceans	<i>Daphnia magna</i>		
	LC ₅₀	2,09 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		
Permethrin (ISO) (52645-53-1)	LC ₅₀	0,145 mg/L	96 h	fish	<i>Cyprinus carpio</i>		
	LC ₅₀	8,9 µg/l	96 h	fish	<i>Poecilia reticulata</i>		
	EC ₅₀	0,02 mg/L	24 h	crustacea	<i>Daphnia magna</i>		
	EC ₅₀	> 0,022 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		
	EC ₅₀	> 1000 mg/L	3 h	bacteria	Activated sludge		
	LC ₅₀	> 1200 mg/kg			<i>Lampito mauritii</i>		
Tetramethrin (7696-12-0)	LC ₅₀	0,033 mg/L	96 h	fish	<i>Brachydanio rerio</i>		
	EC ₅₀	0,47 mg/L	48 h	crustaceans	<i>Daphnia magna</i>		
	LC ₅₀	> 1,36 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		

12.1.2. Chronic (long-term) toxicity

No information

12.2. Persistence and degradability12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information

12.2.2. Biodegradation

No information

12.3. Bioaccumulative potential12.3.1. Partition coefficient n-octanol/water (log Kow)

No information

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12.3.2. Bioconcentration factor (BCF)

No information

12.4. Mobility

12.4.1. Known or predicted distribution to environmental compartments

No information

12.4.2. Surface tension

No information

12.4.3. Adsorption/Desorption

No information

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information

12.7. Additional information

For product

Very toxic to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: to leave it to authorized collector/remover/transformer of hazardous waste.

Packaging

Completely emptied container dispose according to regulations.

13.1.2. Waste treatment-relevant information

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13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION



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3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Additional labeling: Dangerous for the environment

IMDG: MARINE POLLUTANT

14.6. Special precautions for user**Limited quantities**

5 L

Tunnel restriction code

E

IMDG EmS

F-A, S-F

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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**SECTION 15. REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- Dangerous preparations directive (99/45/EC) as amended
- Dangerous substances directive (67/548/EEC) as amended

15.1.1. Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

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15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

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Key literature references and sources for data

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List of relevant R phrases

R20/22 Harmful by inhalation and if swallowed.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of relevant H phrases

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.