

Product name: **EFFECT ULTIMUM**

Creation date: **27.8.2014**

Revision: **14.5.2015**

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 ULTIMUM**

### 1.2. Use of the substance/preparation

Use

Insecticide intended for annihilation of flying and crawling insects (cockroaches, ants, bedbugs and flies). For general and professional use.

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 Irrit. 2; H315 Causes skin irritation.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Eye Dam. 1; H318 Causes serious eye damage.  
Aquatic Acute 1; H400 Very toxic to aquatic life.  
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; R38 Irritating to skin.  
Xi; R41 Risk of serious damage to eyes.  
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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## 2.2 Label elements

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



Signal word: **Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

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### 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
Alcohol ethoxylate	68920-66-1 500-236-9 -	15-30	Skin Irrit. 2; H315	Xi; R38	-
Alcohols, C12-14, ethoxylated	68439-50-9 - -	15-30	Eye Dam. 1; H318 Aquatic Acute 1; H400	Xi; R41 N; R50	-
piperonyl butoxide	51-03-6 200-076-7 -	18	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	N; R50/53	-
Alcohols, C12-15, ethoxylated	68131-39-5 - -	6-15	Eye Dam. 1; H318 Aquatic Acute 1; H400	Xi; R41 N; R50	-
Permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	6	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 -	1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	N; R50/53	-

## 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

Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.



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### Inhalation

Excessive exposure to spray mist, fog, or vapour may cause respiratory irritation.

### Ingestion

Causes nausea/vomiting and diarrhoea.

It can cause hyperactivity, convulsions, paralysis and respiratory arrest in severe cases.

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

Treat symptomatic.

## **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.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

In case of heating harmful vapours/gases can be generated.

### **5.3. Advice for firefighters**

#### Protective actions

Cool containers at risk with water spray jet. If possible remove containers from endangered area.

#### 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) .

### **5.4. Additional information**

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## **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.



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### 6.1.2. For emergency responders

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### **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

-

#### 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 cleaning, wash residues with plenty of water.

#### 6.3.3. Other information

-

### **6.4. Reference to other sections**

See also sections 8 and 13.

## **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**

-

##### **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

-



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### 7.2.3. Requirements for storage rooms and vessels

Keep in properly labeled containers.

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## 7.3. Specific end use(s)

### **Recommendations**

Insecticide. Use only as directed.

### **Industrial sector specific solutions**

-

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational Exposure limit values

No information

#### 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).

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**Appropriate materials**

Material	Thickness	Penetration Time	Remark
Natural rubber	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**

-

8.2.3. Environmental exposure controls**Technical measures to prevent exposure**

Prevent exposure in the environment.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. General information**

- <b>Physical state:</b>	liquid
- <b>Colour:</b>	white
- <b>Odour:</b>	characteristic

Important health, safety and environmental information

- <b>pH</b>	No information
- <b>Melting point</b>	No information
- <b>Boiling point/boiling range</b>	> 290 °C
- <b>Flashpoint</b>	> 120 °C
- <b>Evaporation rate</b>	No information
- <b>Ignition temperature</b>	No information
- <b>Explosion limits (vol%)</b>	No information
- <b>Vapour pressure</b>	No information
- <b>Vapour density</b>	No information
- <b>Density</b>	<b>Density:</b> 0,9 – 1,05 g/cm <sup>3</sup>
- <b>Solubility</b>	No information
- <b>Partition coefficient n-octanol/water (log Kow)</b>	No information
- <b>Auto-ignition temperature</b>	No information
- <b>Decomposition temperature</b>	No information
- <b>Viscosity</b>	No information
- <b>Explosive properties</b>	No information
- <b>Oxidising properties</b>	No information



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## 9.2. Other information

-	<b>Remarks:</b>	Vapour pressure (permethrin): 0.749 mPa at 25 °C.
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

-

### 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, free sparks.

### 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 effects

#### 11.1.1. Acute toxicity

##### For components

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

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

##### Additional information

May cause respiratory irritation. Causes serious eye damage. Causes skin irritation.





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### 11.1.3. Respiratory or skin sensitisation

#### **Additional information**

May cause sensitization by skin contact.

### 11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity

#### **Carcinogenicity**

No information

#### **(Germ cell) mutagenicity**

No information

#### **Reproductive toxicity**

No information

#### **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 <sub>50</sub>	3,94 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>		
	EC <sub>50</sub>	0,51 mg/L	48 h	crustaceans	<i>Daphnia magna</i>		
	LC50	2,09 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		
Permethrin (ISO) (52645-53-1)	LC <sub>50</sub>	0,145 mg/L	96 h	fish	<i>Cyprinus carpio</i>		
	LC <sub>50</sub>	8,9 µg/l	96 h	fish	<i>Poecilia reticulata</i>		
	EC <sub>50</sub>	0,02 mg/L	24 h	crustacea	<i>Daphnia magna</i>		
	EC <sub>50</sub>	> 0,022 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		
	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	Activated sludge		
Tetramethrin (7696-12-0)	LC50	0,033 mg/L	96 h	fish	<i>Brachydanio rerio</i>		
	EC <sub>50</sub>	0,47 mg/L	48 h	crustaceans	<i>Daphnia magna</i>		
	LC50	> 1,36 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		

#### 12.1.2. Chronic (long-term) toxicity

No information



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## 12.2. Persistence and degradability

### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information

### 12.2.2. Biodegradation

No information

## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient n-octanol/water (log Kow)

No information

### 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.



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13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

**SECTION 14. TRANSPORT INFORMATION**

**14.1. UN number**

3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Permethrin (ISO))

**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 flashpoint**

120 °C, c.c.

**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

### 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

-

#### Key literature references and sources for data

-

#### List of relevant R phrases

- R20/22 Harmful by inhalation and if swallowed.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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