

# SAFETY DATA SHEET according to Regulation 1907/2006



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Product name: **EFFECT ULTIMUM**

Creation date: **21.1.2019** · Revision: **22.1.2019** · Version: **1**

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

### 1.1. Product identifier

Product name

**EFFECT ULTIMUM**



[chemius.net/UNY06](http://chemius.net/UNY06)

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

Relevant identified uses

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. Details of the supplier of the safety data sheet

Supplier

UNICHEM D.O.O.  
Address: Sinja Gorica 2, 1360 Vrhnika, Slovenia  
Tel.: +386 1 755 81 50  
Fax: +386 1 755 81 55  
[www.unicchem.si](http://www.unicchem.si)  
e-mail: [unicchem@unicchem.si](mailto:unicchem@unicchem.si)

### 1.4. Emergency telephone number

Emergency

112

Supplier

+386 1 755 81 50

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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.

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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.  
H400 Very toxic to aquatic life.  
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) (CAS: 52645-53-1, EC: 258-067-9, Index: 613-058-00-2)

### 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

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	REACH Registration No.
Alcohol ethoxylate	68920-66-1 500-236-9 -	15-30	Skin Irrit. 2; H315	-
Alcohols, C12-14, ethoxylated	68439-50-9 - -	15-30	Eye Dam. 1; H318 Aquatic Acute 1; H400	-
piperonyl butoxide	51-03-6 200-076-7 -	18	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-
Alcohols, C12-15, ethoxylated	68131-39-5 - -	6-15	Eye Dam. 1; H318 Aquatic Acute 1; H400	-
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]	-
Tetramethrin	7696-12-0 231-711-6 -	1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	-

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person.

#### Following inhalation

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

#### Following skin contact

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

#### Following eye contact

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

#### Following 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. Most important symptoms and effects, both acute and delayed

#### Inhalation

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

#### Skin contact

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

#### Eye contact

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

#### Ingestion

Causes nausea/vomiting and diarrhoea.

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

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

Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant 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. 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) .

#### 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.

#### 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

-

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. After cleaning, wash residues 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.

## 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 feeding stuffs. Keep out of the reach of children.

#### 7.2.2. Packaging materials

-

#### 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/DMEL values

No information.

#### 8.1.4. PNEC values

No information.

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unicchem@unicchem.si, [www.unicchem.si](http://www.unicchem.si)Product name: **EFFECT ULTIMUM**Creation date: **21.1.2019** · Revision: **22.1.2019** · Version: **1****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 areas 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
Natural rubber		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. Information on basic physical and chemical properties**

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

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## Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/Freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	> 290 °C
-	<b>Flash point</b>	> 120 °C
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</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</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.

## 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 of handling and storage.

### 10.3. Possibility of hazardous reactions

-

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

In case of fire/explosion vapours/gases that pose a health hazard are released.



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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1. Acute toxicity

##### For components

Name	Exposure 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	> 0,45 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

##### Additional information

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

#### 11.1.3. Respiratory or skin sensitisation

##### Additional information

May cause an allergic skin reaction.

#### 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.

#### 11.1.6. Aspiration hazard

No information.





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## 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>		
	LC <sub>50</sub>	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)	LC <sub>50</sub>	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>		
	LC <sub>50</sub>	> 1,36 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		

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

No information.

### 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

No information.

#### 12.3.2. Bioconcentration factor (BCF)

No information.

### 12.4. Mobility in soil

#### 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.

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## 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: deliver it to authorized collector/remover/transformer of hazardous waste.

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

Unused product and empty packing shall be disposed in accordance with local regulation on wastes.

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 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

(-)

#### IMDG flashpoint

120 °C, c.c.

#### IMDG EmS

F-A, S-F

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.





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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) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/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

-

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population



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LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

#### Key literature references and sources for data

-

#### 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.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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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.