

 UNICHEM d.o.o. Sinja Gorica 2, 1360 Vrhnika Tel: 01/7558-150 Fax: 01/7558-155	<h1>SAFETY DATA SHEET</h1>	Revision: 3
	EFFECT Universal insecticide	Date of issue: 06.03.2008 Printed: 11.08.2009

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

- 1.1 **Trade name:** EFFECT Universal insecticide
- 1.2 **Use of the preparation:** insecticide
- 1.3 **Supplier:** UNICHEM d.o.o., Sinja Gorica 2, Vrhnika
tel.: +386 (01) 75 58 150 , fax.: +386 (01) 75 58 155

2. HAZARDS IDENTIFICATION

- 2.1 **Safety hazard:** not explosive, not oxidising agent
- 2.2 **Hazard to health:** there is no hazard to health, if used according to the description.
- 2.3 **Hazard to environment:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to bees. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.



3. COMPOSITION/INFORMATION ON INGREDIENTS

	SYMBOL	R-Phrases	S-Phrases
PERMETHRIN 0.25 W% (25:75=cis:trans)	Xn, N	R22, 43, 50/53	S2, 20/21, 60, 61
	CAS	EINECS/ELINCS	INDEX No.
	52645-53-1	258-067-9	613-058-00-2
IUPAC: 3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate CA: (3-phenoxyphenyl)methyl 3-(2,2-dichlorethenyl)-dimethylcyclopropanecarboxylate Inert component up to 100%			

4. FIRST AID measures

Never induce vomiting and do not give anything to drink or eat if the patient is unconscious. Symptomatic treatment.

- 4.1 **Inhalation:** Bring out to open space, release cloth. Seek medical advice.
- 4.2 **Contact with skin:** Take off contaminated clothes and shoes. Wash with water and soap. See medical advice.
- 4.3 **Contact with eye:** Flush immediately eyes with a large amount of water for 15 minutes. Take advice of an ophthalmologist if irritation develops.
- 4.4 **Ingestion:** Wash out mouth. Do not induce vomiting. Do not give anything to eat or drink. Keep patient warm at rest. Seek medical advice immediately.

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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5. FIRE-FIGHTING MEASURES

The product is not-flammable, but is combustible.

5.1 **Suitable extinguishing media:** Carbon dioxide (CO₂), alcohol-resistant foam, dry powder, water spray, mist or foam.

5.2 **Unsuitable extinguishing media:** Water jet from a fire hose.

5.3 **Fire and explosion hazards:** In case of fire, the product emits toxic and irritating fumes.

5.4 **Special protective equipments:** Wear self-contained breathing apparatus and protective clothing

Other recommendations: Do not breathe fumes. Keep fire exposed containers cool by spraying with water if exposed to fire. Avoid rejection of extinguishing water into drainage system, surface or ground water

6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal protection:** Wear protective equipment. (Figure 8)

6.2 **Environment precautions:** Sweep into a suitable container and store material collected. Do not wash into sewers or other waterways

6.3 **Clean-up procedures:** Wipe up spilt agent with absorbent material. Clean area with water and soap.

Other information: -

7. HANDLING AND STORAGE

7.1 **Handling:** Wash hands and exposed part of the body with soap after work. Always use good personal hygiene procedures when handling chemicals. Do not eat, drink or smoke.

7.2 **Storage:** Store in dry cool conditions. Keep away from food, drink and animal feeding stuffs. Keep in original container (PE). Keep out of reach of children.

7.3 **Specific use:** product is meant for diminish unwanted population of insects.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Exposure limit values:** no data.

8.2 **Exposure controls:**

8.2.1 Occupational exposure controls

8.2.1.1: **Respiratory protection:** not necessary

8.2.1.2: **Hand protection:** Wear suitable gloves (synthetic rubber or PVC).

8.2.1.3 **Eyes protection:** not necessary.

8.2.1.4: **Skin protection:** Wear suitable cloth.

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8.2.2 **Environmental exposure protection:** Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: White emulsion
 Odour: Specific

9.2. Important health, safety and environmental information

pH: 6.8
 Boiling point/boiling range: (>290 °C @ 760 Hgmm)
 Solidification point: (-32-35 °C – Permethrin)
 Flash point:: (>120 °C – permethrin)
 Flammability: none
 Self ignition:: none
 Explosive properties: none.
 Oxidizing properties: none.
 Density: 1.0 g/cm³
 Water solubility: miscible
 (0,00018 g/LH₂O @ 20°C, pH=7 – permethrin
 >1000 mg/kg – permethrin in xylene, hexane)
 Viscosity: -
 Vapour pressure: (9,4 × 10⁻² mPa @ 25 °C - Permethrin)
 Partition coefficient: n-octanol/water (log K_{ow}=5,9 @ 20 °C – permethrin)

9.3 **Other information:** n.a.: not applicable

10. STABILITY AND REACTIVITY

10.1 **Condition to avoid:** high (>35 °C) and low (<5 °C) temperature.

10.2 **Material to avoid:** strong oxidizers

10.3 **Hazardous decomposition products:** stable under normal conditions. Combustion or thermal decomposition will produce toxic and irritant fumes.

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11. TOXICOLOGICAL INFORMATION

All data is about the active ingredient – PERMETHRIN.

11.1 Acute toxicity:

Oral: LD₅₀ (rat) = 554 mg /kg body weight
 Dermal: LD₅₀ (rat) = > 2000 mg / kg
 Inhalation: LC₅₀ (4h, rat) = > 4.638 mg / litre of air

11.2 Irritant potential:

Eyes: non irritant
 Dermal: non irritant
 Sensitization: Unknown

11.3 Long term studies:

Carcinogenicity: Non carcinogenic in rat and mice
 Mutagenicity: Non mutagenic. Did not cause any chromosomal effects. Did not cause any DNA single strand damage.
 Reproductive toxicity: No teratogenic effects

12. ECOLOGICAL INFORMATION

All data is about the active ingredient – PERMETHRIN.

12.1 Ecotoxicity: Fish: LC₅₀ (96 h, common carp) = 0.145 mg/L.

Guppy, *Poecilia reticulata*, 96 hours : LC₅₀ : 8.9 Mg/l
 Common Carp, *Cyprinus carpio*, 96 hours : LC₅₀ : 0.145 mg/l
 Daphnia magna, 24 hours : EC₅₀: 0.020 mg/l
 Scenedesmus subspicatus, 72 hours : EC₅₀: >0.022 mg/l
 Activated sewage sludge, 3 hours : EC₅₀: >1000 mg/l
 Acute toxicity Earthworm, *Lampito mauritii*: LC₅₀ >1200 mg/kg

12.2 Mobility: no data available

12.3 **Persistence and degradability:** Strongly adsorbed in soil particles with no risk of leaching and moderately persistent in aquatic organisms (DT₅₀ (soil) < 1 year @ pH 4. at 25°C)

12.4 **Bioaccumulative potential:** no data available

12.5 **Results of PBT assessment:** no data available

Other information: Do not dispose material in sewers and waterways.

13. Disposal consideration

Disposal should be in accordance with local, state or national legislation. Make container unusable.

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14. Transport information

There are no regulatory restrictions affecting the transport of the product. Transport conditions should be in accordance with section 7.2.

UN No.: 0	Road, rail (ADR / RID):	Sea (IMO / IMDG)	Air (ICAO / IATA)
UN class: -	Label: -	Label: -	Label: -
UN packing group: -	Class: -	Class: -	Class
Proper shipping name: -	Item no.: -	group: -	Group:-

15. REGULATORY INFORMATION

15.1 **Symbols and labelling:** N- Dangerous for environment

15.2 **Special risks (R):**

R 50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.3 **Safety advices (S):**

S2 – Keep out of reach of children.

S13 – Keep away from food, drink and animal feeding stuffs.

S61 - Avoid release to the environment. Refer to special instructions / Safety data sheets.

16. OTHER INFORMATION

All the information of this safety data sheet is based on our actual knowledge as well as on EEC regulations.

The product has not to be employed for different uses than those indicated in section 1.

Training: Workers should be trained avoid skin contact with the bait.

R-sentences in the document:

R22 – Harmful by inhalation and if swallowed.

R41 – Risk of serious damage to eyes.

R50 - Very toxic to aquatic organisms

R50/53 – Toxic danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

S-sentences in the document:

S20/21 - When using do not eat, drink or smoke.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 – This material and its container must be disposed of in a safe way.

S39 – Wear eye/face protection

S60 - This material and its container must be disposed of as hazardous waste

S61 - Avoid release to the environment. Refer to special instructions / Safety data sheets