 UNICHEM d.o.o. Sinja Gorica 2, 1360 Vrhnika Tel: 01/7558-150 Fax: 01/7558-155	<h1>SAFETY DATA SHEET</h1>	Revision: 4
	<h2>EFFECT UNI. INS. AEROSOL</h2>	Date of issue: 15.03.2009
		Printed: 11.08.2009

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

- 1.1 Trade name: **EFFECT UNIVERZALNI INSEKTICID AEROSOL**
- 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

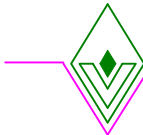
2. HAZARDS IDENTIFICATION

- 2.1 Safety hazard: Extremely inflammable.
- 2.2 Hazard to health: /
- 2.3 Hazard to environment: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. 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 0,1W% (25:75=cis:trans)	Xn, N	R20/22, 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-dichloroethenyl)-dimethylcyclopropanecarboxylate			
Propane +butane +isobutane 74%	SYMBOL	R-Phrases	S-Phrases
	F+	R12	S9,16,33
	CAS	EINECS/ELINCS	INDEX No.
	74-98-6 106-97-8 75-28-5	200-827-9 203-448-7 200-857-2	-
Propane; butane; 2-methyl-propane			
ISOPROPILIC ALCOHOL: 4%	SYMBOL	R-Phrases	S-Phrases
	F, Xi	R11,36,67	S 2, 7, 16, 24/25, 26
	CAS	EINECS/ELINCS	INDEX No.
67-63-0	200-661-7	603-117-00-0	
IUPAC: Propan-2-ol			
Tetramethrin: 0.3%	SYMBOL	R-Phrases	S-Phrases
	N	R50/53	S60,61
	CAS	EINECS/ELINCS	INDEX No.
7696-12-0		-	

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IUPAC: Cikloheks-1-en-1,2-dikarboksimidometil (1RS)-cis,trans-2,2-dimetil-3-(2- metilprop-1-enil) ciklopropankarboksilat

	SYMBOL	R-Phrases	S-Phrases
	F, Xn	11,65	S23, 24, 62
Petroliferous solvent: 20 % (< 0.1 % benzene)	CAS	EINECS/ELINCS	INDEX No.
	64742-48-9	265-150-3	-
IUPAC: <u>Naphtha (petroleum), hydrotreated heavy</u>			

4. FIRST AID measures

Call local emergency information.

- 4.1 **Inhalation:** : if high concentration of vapors is inhaled, move to fresh air. In case of malaise, consult a doctor.
- 4.2 **Contact with skin:** Take off contaminated clothes and shoes. Wash with water and soap. If irritation occurs 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:** Seek medical advice immediately.

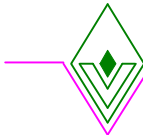
General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE-FIGHTING MEASURES

The product is inflammable and combustible.

- 5.1 **Suitable extinguishing media:** Carbon dioxide (CO₂), alcohol-resistant foam, dry powder, water spray, mist or foam.
- 5.2 **Unsuitable extinguishing media:** No data
- 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

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6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal protection:** Wear protective equipment (Figure 8). Do not smoke. Avoid contact with flame and sparks.
- 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Other information: -

7. HANDLING AND STORAGE

- 7.1 **Handling:** Container under pressure. Protect from sunlight and do not expose to a temperature higher than 50°C. Avoid electrostatic charges amass. Do not burn or pierce even after use. Don't smoke. Keep out of the reach of children. Do not inhale directly.
- 7.2 **Storage:** Keep away from food, drink and animal feeding stuffs, in cool (under 30°C) and dry places. Keep out of the reach of children and domestic animals. Store tightly closed container in a cool, well ventilated, dry place.
- 7.3 **Specific use:** product is meant for diminish unwanted population of insects.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

8.2. **Exposure controls:**

8.2.1 Occupational exposure controls

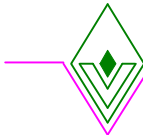
8.2.1.1: **Respiratory protection:** Not necessary in compliance with instructions for use.

8.2.1.2: **Hand protection:** /

8.2.1.3 **Eyes protection:** Wear protective glasses.

8.2.1.4: **Skin protection:** No chemical-protective gloves required. Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: aerosol
 Odour: Characteristic

9.2. Important health, safety and environmental information

pH: -
 Boiling point/boiling range: -
 Solidification point: -
 Flash point:: 104°C (refer to propane)
 Inflammability range in air: 1,8-9,5 %
 Self ignition:: 420 °C
 Explosive properties: The canister can burst to temperature > 50°C
 Oxidizing properties: -
 Density: 0,611 g/cm³
 Water solubility: insoluble in water
 Viscosity: -
 Vapour pressure: -
 Partition coefficient: n-octanol/water: -

9.3 Other information: n.a.: not applicable

10. STABILITY AND REACTIVITY

10.1 Condition to avoid: high temperature above 35 °C.

10.2 Material to avoid: No decomposition if used according to specifications.

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

11. TOXICOLOGICAL INFORMATION

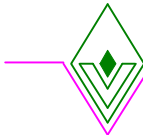
All information on acute toxicity is related to the pure active substance.

11.1 Acute toxicity:

Oral: LD₅₀ (rat) = 554 mg /kg body weight – Permethrin
 LD₅₀ (rat) > 5000 mg/kg rat – Tetramethrin
 Dermal: LD₅₀ (rat) = > 2000 mg / kg – Permethrin
 Inhalation: LC₅₀ > 4.638 mg / L rat – Permethrin
 LC₅₀ > 2740 mg/m³ rat – Tetramethrin

11.2 Irritant potential:

Eyes: Irritant for eyes

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Dermal: Light irritant for skin

Sensitization: Unknown

11.3 Long term studies:

Carcinogenicity: no evidences

Mutagenicity: no evidences

Reproductive toxicity: no evidences

OTHER INFORMATION: High concentration of propellant can have asphyxiating effects. The contact of liquid-state product with skin can cause cool lesion.

12. ECOLOGICAL INFORMATION

All data is about the active ingredient – PERMETHRIN.

12.1 Ecotoxicity:

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

12.2 Mobility

Strongly adsorbed in soil particles with no risk of leaching

12.3 Persistence and degradability:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DT50 pH 4 at 25°C: > 1 year (water)

12.4 **Bioaccumulative potential:** no data available

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

Other information: Avoid discharging into drains, rivers lakes or sea. This product don't contain dangerous propellant for ozone layer.

13. Disposal consideration

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

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.: 1950

Road, rail (ADR / RID):

Sea (IMO / IMDG)

Air (ICAO / IATA)

UN class:

Label: toxic for environment

Label: -

Label: toxic for environment

UN packing group: III

Class: 2

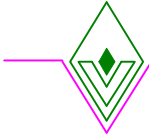
Class: 2

Class: 2

Item no.: 11c

group: -

Group:-

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15. REGULATORY INFORMATION

15.1 **Symbols and labelling:** F+ – Extremely Flammable, N- Dangerous for environment

15.2 **Special risks (R):**

R12: Extremely Flammable.

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.

S16: Keep away from sources of ignition - No smoking.

S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer.

S51: Use only in well-ventilated areas.

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

Container under pressure. Protect from sunlight. Do not burn or pierce even after use. Do not spray on flame or on incandescent thing.

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.

R-sentences in the document:

R20/22 – Harmful by inhalation and if swallowed.

R11 – Highly flammable.

R36 – Irritating to eyes.

R43– May cause sensitization by skin contact.

R65 – Harmful may cause lung damage if swallowed.

R67 – Vapours may cause drowsiness and dizziness.

S-sentences in the document:

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

S24/25 – Avoid contact with skin and eyes.

S7 – Keep container tightly closed.

S9 – Keep container in a well-ventilated place.

S24 – Avoid contact with skin.

S33 – Take precautionary measures against static discharges.

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

S62 – If swallowed, do not induce vomiting seek medical advice immediately and show this container or label.