

SAFETY DATA SHEET

16 May 2007

ADVERSUS S.L.

Av. Vicente Navarro García, 39
46380 Cheste (Valencia) SPAIN

Registration Nº: **07-80-04626**

RED DEMON® Household Use

PRODUCT AND COMPANY IDENTIFICATION

Commercial Name of Product: RED DEMON® Household Use

Description of product: INSECTICIDE

Manufacturer: SPACHEM S.L.
Pol. Ind. Guadassequies, s/n
46839 Guadassequies (Valencia) SPAIN
Tel: +34 96 229 - 30 93
Fax: +34 96 226 – 30 52
E-mail: spachem@spachem.es

Emergency telephone:

INSTITUTO NACIONAL DE TOXICOLOGÍA (NATIONAL TOXICOLOGY INSTITUTE):
Tel: +34 91-5620420

COMPOSITION / INFORMATION ABOUT COMPONENTS:

Etofenprox..CAS-No: 80844-07-1.....EINECS Nº: 407-980-2.....	2.45% p/v
Thiamethoxam..CAS-No: 153719-23-4.....EINECS Nº: 428-650-4.....	0.36% p/v
Solvents c.s.p.....	100%

IDENTIFICATION OF HAZARDS

R11: Flammable.

R36: Irritates the eyes.

R51/53: Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R67: The inhalation of vapours may cause drowsiness and dizziness.

POISONING MAY CAUSE:

- Headache, dizziness, hallucinations, CNS depression and coma.
 - Nausea, vomiting and haemorrhagic gastritis.
 - Irritation of eyes and skin, respiratory and gastrointestinal tracts.
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FIRST AID ASSISTANCE

Ingestion:

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- Do NOT administer anything orally.
- In case of Ingestion: Do **NOT** induce vomiting.
- Keep the patient at rest.
- Maintain the body temperature.
- Control breathing, if necessary, by artificial respiration.
- If the person is unconscious, lay them on their side, with the head lower than the body and knees half-flexed.
- Move the victim to a hospital and, whenever possible, take the label of the bottle.

Contact with skin:

- Remove the person from the contaminated area.
- Remove stained clothing immediately.
- Wash the skin with plenty of soap and water, without rubbing.

Contact with eyes:

- Wash eyes with plenty of water for at least 15 minutes. Remove contact lenses.

Treatment advice:

- In case of ingestion, an endoscope is recommended.
- Monitor glycaemia (blood glucose) and keturia (urine ketone) levels.
- Contraindications: Syrup of ipecac.
- Symptomatic treatment.

FIRE PREVENTION MEASURES

Recommended extinguishing methods:

- Foam, chemical powder, CO₂, earth.
- In cases of fire involving electrical equipment, the use of dry chemical powder is recommended, given its non-conductivity.

Unsuitable extinguishing methods:

- Do not use pressurised water.

Hazardous decomposition:

- Under open fire conditions, the product may emit irritating hydrochloric acid (HCl) hydrogen cyanide (HCN) and carbon monoxide (CO) vapours.

Special protective equipment for fire-fighters:

- Always wear suitable protective clothing and self-contained breathing equipment.

ACCIDENTAL RELEASE MEASURES:

- Extinguish all heat and ignition sources.

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- Do not smoke.
- Avoid sparks and build-up of static electricity.
- Ensure proper ventilation.

Personal precautions:

- Avoid breathing any fumes, avoid contact with eyes and skin.
- Use to the degree the exposure requires: safety glasses with side protection, PVC protective clothing, nitrile gloves, knee-high polypropylene or butyl rubber safety boots, mask with organic vapour cartridge and NPF 400 filter and self-contained breathing equipment.

Environmental protection precautions:

- Do not pour product in drains or waterways.
- Dispose of in accordance with local regulations.

Cleaning methods for spills:

On the ground:

- Isolate the area and absorb spill immediately with sand, talc or earth. Do not use combustible materials such as sawdust or peat.
- Collect in containers suitable for their subsequent disposal in accordance with local regulations.
- If the spill was directly on to non-asphalted/constructed ground, dig up and collect the portion of the ground where the spill took place.

In the water:

- If possible, recover through pumping (manual or fireproof pump).
 - If the spill is significant, inform the environmental and civil protection agencies. Risk of toxicity. Potential risk of explosion.
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HANDLING AND STORAGE

Storage conditions:

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- Always store in original containers, well-sealed, away from light, food, drink and animal feed.
- Keep away from unauthorised personnel.
- Store in a cool, well ventilated place protected from ignition and heat sources, and static electricity.

Handling conditions:

- Use and handle carefully so as to minimise the amount of leftover waste and spillage of the product.
- Extinguish all heat and ignition and static electricity sources. Do not smoke. Do not use electrical outlets.
- The product attacks most of the rubbers and some plastics.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures:

- To reduce the risk of inhalation and fire, ensure good ventilation in the area where the product is applied.
- Avoid splashing while handling and applying product.

Personal protective equipment:

- Wear suitable protective clothing.
- Wash protective clothing frequently.
- Wear gloves resistant to chemical agents.
- Change clothing when stains from the product are observed.

If application requires protection from splashing and fumes:

- Wear safety glasses with side protection or mask and equipment to protect the respiratory system with a filter for organic vapours and self-contained breathing apparatus.

Other:

- Boots
- Helmet
- Etc...

PHYSICAL AND CHEMICAL PROPERTIES:

Physical state: _____Liquid
Colour: _____Amber yellow

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Odour: ----- Characteristic
Density (20°C): ----- 0.948 ± 0.02 g/ml
Flash point: ----- 38°C
pH: ----- (1% water / alcohol solution, 1:1) 5
Viscosity (20°C): ----- < 20 mPas/s
Water solubility: ----- Not miscible. Active materials practically insoluble.

STABILITY AND REACTIVITY

Stability:

- Stable in normal storage conditions.

Conditions to be avoided:

- Avoid high temperatures for prolonged periods of time.
- Do not expose to excessive heat.
- Avoid conditions of insufficient ventilation.

Materials to avoid:

- Alkaline materials (the active materials hydrolyse)
- Oxidising agents.
- Mineral acids, particularly nitric and sulphuric acid.

Hazardous decomposition products:

- None known in normal storage and use conditions.
-

TOXICOLOGICAL INFORMATION:

Acute oral toxicity: ----- LD50 rat = > 2000 mg/kg
Acute cutaneous toxicity: ----- ED50 rat = > 2000 mg/kg
Inhalation toxicity: ----- LC50 rat (4h) = > 3720 mg/kg
Ocular irritation: ----- Irritant.
Cutaneous irritation: ----- Irritant.
Sensitisation: ----- May cause sensitization.

ECOLOGICAL INFORMATION

Solvents:

- Not miscible with water.

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- Biodegradable.
- Bioaccumulation not expected.
- Indirect risk by rapid decrease of dissolved Oxygen (4 - 5 days)

Etofenprox:

- **EC50 (3h):** _____ > 100 mg/l (bacteria).
- **EC50 (72h):** _____ 0.150 mg/l (algae)
- **EC50 (48h):** _____ 0.0012 mg/l (daphnia magna)
- **LC50 (96h):** _____ < 0.013 mg/l

Thiamethoxam:

- **Fish LC50:** _____ Trout > 125 mg/l
- **Fish LC50:** _____ Fish Bluegill Sunfish > 125 mg/l
- **Invertebrates EC50:** _____ Daphnia > 100 mg/l
- **Invertebrates EC50:** _____ Mysid shrimp > 6.9 mg/l
- **Invertebrates EC50:** _____ Eastern oyster > 119 mg/l
- **Birds LC50:** _____ Quail 1552 mg/kg
- **Birds LC50:** _____ Duck 576 mg/kg
- **Dietetic Birds LC50:** _____ Quail > 5200 ppm
- **Dietetic Birds LC50:** _____ Duck > 5200 ppm

DISPOSAL CONSIDERATIONS**Packages:**

- Controlled destruction in a waste management centre.
- In accordance with local legislation.

INFORMATION CONCERNING TRANSPORT:

- "1992 Flammable Liquid, toxic, N.O.S. 3, 32° c) ADR"
- 3017 Organophosphorus Pesticide, liquid, toxic, flammable, flashpoint not less than 23 °C, 6.1, 72° c), ADR"

LEGAL INFORMATION:

- Classification and labelling according to the Regulations of classification, labelling and packaging for hazardous substances.

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RED DEMON® Household Use

Pictograms:

F



Flammable

Xi



Irritant

N



Environmentally
hazardous

Risk Phrases:

R11: Flammable.

R36: Irritates the eyes.

R51/53: Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R67: The inhalation of vapours may cause drowsiness and dizziness.

Safety Phrases:

S2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feed.

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

S24/25: Avoid contact with eyes and skin.

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

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

OTHER INFORMATION:

- This information is based on the current knowledge we possess and refers to the product in the form in which it is supplied. However, while the product is being applied, various factors may intervene which are beyond our control, such as:

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- Mixtures of products
 - Application procedures
 - Weather conditions
 - Etc...
-
- The manufacturer guarantees the formula, content and effectiveness of the recommended dosage.
 - The user will be responsible for any damages caused for reasons due to use, handling and waste disposal of this product different from the instructions found on its label.

Printing date:

16 May 2007