

ADVERSUS S.L.

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

Registration Nº: **08-80-05187**

RED DEMON® SRF

PRODUCT AND COMPANY IDENTIFICATION

Commercial Name of Product: RED DEMON® SRF (Special Rot Fungi)

Description of product: Insecticide-Fungicide (Wood preserver)

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:

Propiconazole.....CAS-No: 602607-90-1 EINECS-No: 262-104-4.....8 % p/v
Tebuconazole.....CAS-No: 107534-96-3 EINECS-No: 403-640-2.....4 % p/v
IPBC.....CAS-No: 55406-53-6 EINECS-No: 259-627-5.....5.5 % p/v
Etofenprox.....CAS-No: 80844-07-1.....EINECS-No: 407-980-2.....4.8 % p/v
Solvents c.s.p.....100%

IDENTIFICATION OF HAZARDS

- R11:** Flammable.
R36: Irritates the eyes.
R43: Can cause skin irritation.
R50/53: Extremely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R66: Repeated exposure may cause skin dryness or cracking.
R67: The inhalation of vapours may cause drowsiness and dizziness.
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POISONING MAY CAUSE:

- Irritation of eyes, skin, respiratory and gastrointestinal tracts.
- Liver sensitisation and agitation.
- Symptoms consistent with ethyl intoxication: Depression of CNS and respiratory system, agitation, hypothermia, hypoglycaemia, metabolic acidosis, inhalation of vomit.

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FIRST AID ASSISTANCE

Ingestion:

- **DO NOT** administer anything orally.
- If ingested, **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 centre and, whenever possible, take the label or 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.
 - Water-electrolyte control.
 - Do not neutralise with bases or acids.
 - Symptomatic treatment.
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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.
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ACCIDENTAL RELEASE MEASURES

- Extinguish all heat and ignition sources
- No smoking
- 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:

- 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 in order to minimise the amount of leftover waste and spillage of the product.
 - Extinguish all heat and ignition and static electricity sources. No smoking. Do not use electrical outlets.
 - The product attacks most of the rubbers and some plastics.
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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...
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PHYSICAL AND CHEMICAL PROPERTIES

Physical state: _____ Liquid
Colour: _____ Amber yellow
Odour: _____ Characteristic
Density (20°C): _____ 0.948 ± 0.02 g/ml
Flash point: _____ 38°C
pH: _____ (1% water / alcohol solution, 1:1) 5
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
- 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: _____ LD50 rat = > 2000 mg/kg
Inhalation toxicity: _____ LC50 rat (4h) = > 3720 mg/kg
Ocular irritation: _____ Irritant
Cutaneous irritation: _____ Irritant
Sensitisation: _____ May cause sensitization.

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ECOLOGICAL INFORMATION:

Solvents:

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

Propiconazole:

- Fish LC50 : _____ (96h) (brown trout) 5.3 mg/l
- Algae LC50 : _____ (72h) (Scenedesmus subspicatus) 0.76 mg/l
- Daphnia EC50 : _____ (48h) 10.2 mg/l
- Biological degradation: _____ Not biodegradable.
- Surface tension: _____ 46.6 – 48.8 mN/m (1%, 20°C).

Other information:

- Bees (Apis Mellifera) LD50 : _____ (96h) > 0.1 mg / bee).
- Extremely toxic for aquatic organisms.

Tebuconazole:

Daphnia magna EC50 : _____ 11.8 mg/l (48 h)
Algae (Scenedesmus subspicatus) EC50 : _____ 5.3 mg/l (72 h)
Fish (oncorhynchus mykiss) LC50 : _____ 4.4 mg/l (96 h)
Bioconcentration factor (BCF) : _____ 77

IPBC:

Fish LC50 : _____ 0.23 mg/l (96h)
Daphnia Magna EC50 : _____ 0.696 mg/l (48h)
Degradability: _____ Not specified
Bioconcentration factor (BCF) : _____ 3.3 – 4.5, Log Pow 2.81

Etifenprox:

- EC50 (3h) : _____ > 100 mg/l (bacteria).
- EC50 (72 h) : _____ 0.150 mg/l (algae).
- EC50 (48h) : _____ 0.0012 mg/l (Daphnia Magna).
- LC50 (96h) : _____ 0.013 mg/l (fish Bluegill Sunfish).
- LC50 (96) : _____ 0.0027 mg/l (Rainbow trout).

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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"
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LEGAL INFORMATION:

- Classification and labelling in accordance with the regulations for classification, labelling and packaging of hazardous substances.

Pictograms:

F



Flammable

Xi



Irritant

N



Environmentally
hazardous

Risk Phrases:

R11: Flammable.

R36: Irritates the eyes

R43: Can cause skin irritation.

R50/53: Extremely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R66: Repeated exposure may cause skin dryness or cracking.

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.

S26: In the case of direct contact with the eyes, wash immediately with abundant water and consult a doctor.

S36/37: Wear suitable protective clothing and gloves.

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

S60: Eliminate product and its container as hazardous waste.

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OTHER INFORMATION:

- For use by qualified professionals only.
- The 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:
 - Mixtures of products
 - Application procedures
 - Weather conditions
 - Etc...
- The manufacturer guarantees the formula and content of the product.
- 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