

# SAFETY DATA SHEET

16 May 2007

## ADVERSUS S.L.

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

Registration N°: **08-80-04983**

## **RED DEMON® SBS**

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### PRODUCT AND COMPANY IDENTIFICATION

**Commercial Name of Product:** RED DEMON® SBS (Special Blue Stain)

**Description of product:** 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](mailto:spachem@spachem.es)

### Emergency telephone:

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

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### COMPOSITION / INFORMATION ABOUT COMPONENTS:

Propiconazole.....CAS-No: 602607-90-1 EINECS-No: 262-104-4.....	12 % 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.....	4 % p/v
Solvents c.s.p.....	100%

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### 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 PRODUCE:**

- irritation of the eyes, skin, mucous membranes, respiratory and gastrointestinal tracts, possibility of pneumonia by inhalation, CNS depression.
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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. No 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, CO<sub>2</sub>, 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.

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**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 lateral protection and protective respiratory mask with a filter for organic vapours and self-contained breathing equipment.

#### Other:

- Boots
  - Helmet
  - Etc...
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### PHYSICAL AND CHEMICAL PROPERTIES:

**Physical state:** \_\_\_\_\_ Liquid  
**Colour:** \_\_\_\_\_ Amber yellow  
**Odour:** \_\_\_\_\_ Characteristic  
**Density (20°C):** \_\_\_\_\_ 1.18 ± 0.02 g/ml  
**Flash point:** \_\_\_\_\_ 38°C  
**pH:** \_\_\_\_\_ (sol. 1% agua / alcohol, 1:1)5  
**Viscosity (20°C):** \_\_\_\_\_ < 20 mPas/s  
**Water solubility:** \_\_\_\_\_ Not miscible.

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### 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.
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### TOXICOLOGICAL INFORMATION:

**Acute oral toxicity:** \_\_\_\_\_ LD50 (rat) = < 2000 mg/kg  
**Acute cutaneous toxicity:** \_\_\_\_\_ LD50 (rabbit) = > 2000 mg/kg  
**Inhalation toxicity:** \_\_\_\_\_ LC50 rat (4h) = 20 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).

**IPBC:**

- **Fish LC50:** \_\_\_\_\_ 11.8 mg/l (48 h)
- **Daphnia Magna EC50:** \_\_\_\_\_ 0.696 mg/l (48h)
- **Degradability:** \_\_\_\_\_ Not specified
- **Bioconcentration factor (BCF):** \_ 3.3 - 4.5 Log Pow 2,81

**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
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### DISPOSAL CONSIDERATIONS

**Packages:**

- Controlled destruction in a waste management centre.
  - In accordance with local legislation.
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### INFORMATION CONCERNING TRANSPORT:

- "1992 Flammable Liquid, toxic, N.O.S. 3, 32° c) ADR"
  - " 3017 Organophosphorus 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 for hazardous substances.

**Pictograms:**

F



Flammable

Xi



Irritant

N



Environmentally  
hazardous

**Risk Phrases:**

**R11:** Flammable

**R36:** Irritates the eyes.

**R50/53:** 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.

**S23:** Do not inhale gasses / smoke / vapours / aerosols.

**S24:** Avoid contact with skin.

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

**S37:** Use suitable 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.
- 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:
  - Mixtures of products
  - Application procedures
  - Weather conditions
  - Etc...
- The company guarantees the formula 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