## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

| | |
|---|---|
| **Product Name** | **SPAN** |
| **Use of the Substance/Preparation** | Fungicide |
| **Company identification** | ProKlass Products Limited<br>20-22 Wenlock Road<br>London<br>N1 7GU<br><br>Email: office@proklass-products.com |
| **Poisoning Situations** | Call ProKlass Products Limited **+44 (0) 1480 810137** |
| **Additional information available from** | For advice on medical emergencies, fires, spillages or chemical hazards ONLY: **+44 (0) 1480 810137** |

## 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture:**

**Classification according to Regulation EC No 1272/2008**
Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| | | |
|---|---|---|
| Skin Sensitisation: | Sub-category 1B: | H317 |
| Reproductive toxicity: | Sub-category 1B: | H360Df |
| Chronic aquatic toxicity: | Category 2: | H411 |

**Classification according to Directive 67/548/EEC-1999/45/EC**

T, Toxic
N, Dangerous for the environment
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61: May cause harm to the unborn child.
R62: Possible risk of impaired fertility.

**2.2 Label elements:**

**Labelling according to Regulation EC No 1272/2008 (CLP)**



**Signal word Danger**

Hazardous components which must be listed on the label:
- Propiconazole
- Tetrahydrofurfuryl alcohol

**H-statements**
H317: May cause an allergic skin reaction.
H360Df: May damage the unborn child. Suspected of damaging fertility.
H411: Toxic to aquatic life with long lasting effects.

**P-statements**
P102: Keep out of reach of children.
P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing.

P308/P313: IF exposed or concerned: Get medical advice/attention.
P391: Collect spillage.
P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH401: To avoid risks to human health and the environment comply with the instructions for use.

**2.3 Other hazards:**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration |
|---|---|---|---|---|
| Tetrahydrofurfuryl alcohol | 97-99-4<br>202-625-6 | T R61<br>R62<br>R36 | Repr. 1B; H360Df<br>Eye Irrit.2; H319 | 40 - 50 % W/W |
| Propiconazole | 60207-90-1<br>262-104-4 | Xn, N<br>R22 R43<br>R50/53 | Acute Tox.4; H302 Skin Sens.1B; H317 Aquatic Acute1; H400<br>Aquatic Chronic1; H410 | 14.3 % W/W |

**Substances for which there are Community workplace exposure limits.**

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

**4.1 Description of first aid measures:**

General:
Have the product container, label or Material Safety Data Sheet with you when calling the emergency number, a poison control centre or physician, or going for treatment.

Inhalation:
Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin contact:
Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion:
If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed:**

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed:**

There is no specific antidote available.
Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**5.1 Suitable extinguishing media:**

Small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Large fires
Use alcohol-resistant foam or water spray.

Unsuitable media
Do not use a solid water stream as it may scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture:**

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters:**

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**6.3 Methods and material for containment and cleaning up:**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections:**

Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling:**

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

**7.2 Conditions for safe storage, including any incompatibilities:**

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s):**

Registered Crop Protection products: For proper and safe use of this product, please refer to the product label.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:**

| Components | Exposure limit(s) | Type of exposure limit |
|---|---|---|
| Propiconazole | 8 mg/m3 | 8 h TWA |

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

**8.2 Exposure controls:**

Engineering Measures:
Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Protective measures:
The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection:
A combination gas, vapour and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand protection:
Suitable material: nitrile rubber.
Break through time: > 480 min
Glove thickness: 0.5 mm
Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye Protection:
Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection:
Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate: impervious protective suit.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties:**

Physical State: liquid
Form: liquid.
Colour: Yellowish to orange.
Odour: Aromatic, like solvent
Odour Threshold: No data available
pH: 5 - 9 at 1 % w/v
Melting point/range: No data available Boiling point/boiling range : No data available
Flash point: > 105°C at 997 hPa DIN EN 22719
Evaporation rate: No data available
Flammability (solid, gas): No data available
Lower explosion limit: No data available
Upper explosion limit: No data available
Vapour pressure: No data available
Relative vapour density: No data available
Density: 1.09 g/cm³ at 20 °C
Solubility in other solvents: No data available
Partition Coefficient n-octanol/water: No data available
Autoignition temperature: 280 °C
Thermal decomposition: No data available
Viscosity, dynamic: 25.6 mPa.s at 40 °C
59.8 mPa.s at 20 °C
Viscosity, kinematic: No data available
Explosive properties: Not explosive
Oxidizing properties: Not oxidising

**9.2 Other information:**

Surface tension: 37.8 mN/m at 20 °C
38.3 mN/m at 20 °C

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:**
No information available.

**10.2 Chemical stability:**
No information available.

**10.3 Possibility of hazardous reactions:**
No hazardous reactions by normal handling and storage according to provisions.

**10.4 Conditions to avoid:**
No decomposition if used as directed.

**10.5 Incompatible materials:**
No substances are known which lead to the formation of hazardous substances or thermal reactions.

**10.6 Hazardous decomposition products:**

Combustion or thermal decomposition will evolve toxic and irritant vapours.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:**

Acute oral toxicity:
LD50 male rat, > 5,050 mg/kg
LD50 female rat, 4,343 mg/kg
The toxicological data has been taken from products of similar composition.

Acute inhalational toxicity:
LC50 male and female rat, > 1.08 mg/l , 4 h
The toxicological data has been taken from products of similar composition.

Acute dermal toxicity:
LD50 male and female rabbit, > 2,020 mg/kg
The toxicological data has been taken from products of similar composition.

Skin corrosion/irritation:
Rabbit: non-irritating.
The toxicological data has been taken from products of similar composition.

Serious eye damage/eye irritation:
Rabbit: moderately irritating
The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitisation
Buehler Test guinea pig: A skin sensitizer in animal tests.

Germ cell mutagenicity
Propiconazole
Did not show mutagenic effects in animal experiments.

Carcinogenicity
Propiconazole
Did not show carcinogenic effects in animal experiments.

Reproductive toxicity
Propiconazole
Did not show reproductive toxicity effects in animal experiments.
Tetrahydrofurfuryl alcohol
May damage the unborn child. Suspected of damaging fertility.

STOT – repeated exposure
Propiconazole
No adverse effect has been observed in chronic toxicity tests.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish
LC50 *Oncorhynchus mykiss* (rainbow trout), 25 mg/l , 96 h
LC50 *Lepomis macrochirus* (Bluegill sunfish), 36 mg/l , 96 h

Toxicity to aquatic invertebrates
EC50 *Daphnia magna* Straus, 8.5 mg/l , 48 h

Toxicity to aquatic plants
EbC50 *Pseudokirchneriella subcapitata* (green algae), 5.6 mg/l , 96 h
ErC50 *Pseudokirchneriella subcapitata* (green algae), 44 mg/l , 96 h.
NOEC *Pseudokirchneriella subcapitata* (green algae), 0.46 mg/l , 96 h

### 12.2 Persistence and degradability

Biodegradability
Propiconazole
Not readily biodegradable

Stability in water
Degradation half life: 28 - 64 d
Stable in water

Stability in soil
Degradation half life: 66 - 170 d
Not persistent in soil

### 12.3 Bioaccumulative potential

Propiconazole
Low to medium mobility in soil.

### 12.4 Mobility in soil

Propiconazole
Low to medium mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Propiconazole
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects:

None known.

## 13. DISPOSAL INFORMATION

### 13.1 Waste treatment methods

Product
Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging
Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**Land transport (ADR/RID):**

| | | | |
|---|---|---|---|
| **14.1** | **UN Number** | **:** | UN 3082 |
| **14.2** | **UN proper shipping name** | **:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE) |
| **14.3** | **Transport hazard class(es)** | **:** | 9 |
| **14.4** | **Packing Group** | **;** | III |
| Labels | | : | 9 |
| **14.5** | **Environmental hazards** | : | Environmentally hazardous |

**Sea (IMDG)**

| | | | |
|---|---|---|---|
| **14.1** | **UN Number** | **:** | UN 3082 |
| **14.2** | **UN proper shipping name** | **:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE) |
| **14.3** | **Transport hazard class(es)** | **:** | 9 |
| **14.4** | **Packing Group** | **;** | III |
| Labels | | **:** | 9 |
| **14.5** | **Environmental hazards** | **:** | Marine pollutant |

**Air transport (ICAO-TI/IATA-DGR)**

| | | | |
|---|---|---|---|
| **14.1** | **UN Number** | **:** | UN 3082 |
| **14.2** | **UN proper shipping name** | **:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE) |
| **14.3** | **Transport hazard class(es)** | **:** | 9 |
| **14.4** | **Packing Group** | **;** | III |
| Labels | | **:** | 9 |
| **14.6** | **Special precautions for user** | **:** | none |

## 15. REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Hazardous components which must be listed on the label:
- Propiconazole

**15.2 Chemical safety assessment:**

A Chemical Safety Assessment is not required for this substance.

## 16. OTHER INFORMATION

Use plant protection products safely. Always read the label and product information before use.

Full text of R-phrases referred to under sections 2 and 3:

| | |
|---|---|
| R22 | Harmful if swallowed. |
| R36 | Irritating to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R61 | May cause harm to the unborn child. |
| R62 | Possible risk of impaired fertility |

Full text of H-Statements referred to under sections 2 and 3.

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

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