

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

Product name : Prallethrin

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

According to Regulation (EC) No1272/2008

Acute toxicity, Inhalation (Category 3)

Acute toxicity, Oral (Category 4)

Acute aquatic toxicity (Category 1)

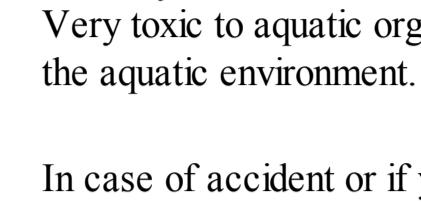
Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Toxic by inhalation. Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

Harmful if swallowed.

H302

Toxic if inhaled.

H331

Very toxic to aquatic life with long lasting effects.

H410

Precautionary statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray.

P261

Avoid release to the environment.

P273

Call a POISON CENTER or doctor/physician.

P311

Dispose of contents/container to an approved waste disposal plant.

P501

Hazard symbol(s)

Toxic

T

Dangerous for the environment

N

R-phrase(s)

Harmful if swallowed.

R22

Toxic by inhalation.

R23

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53

S-phrase(s)

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

S45

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

S60

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

S61

Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : (RS)-2-Methyl-4-oxo-3-prop-2-ynylcyclopent-2-enyl (1RS,3RS;1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Formula : C19H24O3

Molecular Weight : 300,39 g/mol

CAS-No.	EC-No.	Classification	Concentration
prallethrin 23031-36-9	245-387-9	- Acute Tox. 3; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H302, H331, H410 T, N, R22 - R23 - R50/53	-

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

## 4. FIRST AID MEASURES

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

### Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

#### Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour yellow, brown

### Safety data

pH no data available

Melting point no data available

Boiling point 313,5 °C at 1.013 hPa

Flash point 139 °C - closed cup

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Density 1,03 g/cm3 at 20 °C

Water solubility 0,008 g/l

Partition coefficient: log Pow: 4,49 at 25 °C

n-octanol/water

Solubility > 500 g/l Methanol

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

no data available

### Materials to avoid

Alkalies

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - male - 640 mg/kg

LD50 Oral - rat - female - 460 mg/kg

LC50 Inhalation - rat - 4 h - 0,29 - 0,33 mg/l

LD50 Dermal - rat - > 5.000 mg/kg

### Skin corrosion/irritation

The working solutions are not irritating to skin.

### Serious eye damage/eye irritation

No eye irritation

no data available

### Respiratory or skin sensitization

guinea pig - Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

no data available

### Carcinogenicity

Carcinogenicity classification not possible from current data.

IARC: No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause irritation.

### Signs and Symptoms of Exposure

Skin irritation, Eye irritation, abnormality of sensation, Symptoms and signs of poisoning are: Headache, Nausea, Vomiting, Diarrhea, muscle cramping, shivering, dizziness., Salivation, Ingestion may provoke the following symptoms: Lung edema, Diarrhea, flushing, sweating, Salivation. Ingestion may provoke the following symptoms: Lung edema, Diarrhea, flushing, sweating, Salivation.

### Additional Information

RTECS: no data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0,012 mg/l - 96,0 h

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0,022 mg/l - 96,0 h

Toxicity to daphnia EC50 - Daphnia - 0,062 mg/l - 48 h

Toxicity to aquatic invertebrates

### Persistence and degradability

no data available

### Biodegradability

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available