

# PAN AQUARIUS

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

### Product information

Trade name Pan Aquarius

Product code

Usage fungicide

Company

Pan Agriculture Ltd

8 Cromwell Mews

Station Road

St Ives

Cambs

PE27 5HJ

Telephone 01480 467790

Telefax 01480 467041

Emergency telephone number 01480 477790

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

Water dispersible granules (WG)

Trifloxystrobin 50 %

### Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Trifloxystrobin	141517-21-7	Xi, N	R43, R50/53	50.00
Dibutyl naphthalenesulfonic acid, sodium salt	25417-20-3 246-960-6	Xn	R20/22, R36/38, R52/53	5.00
Diatomaceous earth	61790-53-2			> 5.00 - < 25.00

## 3. HAZARDS IDENTIFICATION

### Risk advice to man and the environment

May cause sensitization by skin contact.

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

## 4. FIRST AID MEASURES

### General advice

Move out of dangerous area. Remove contaminated clothing immediately and dispose of safely.

Place and transport victim in stable position (lying sideways).

### Inhalation

Call a physician or poison control center immediately. Move to fresh air. Keep patient warm and at rest

**Skin contact**

Wash off immediately with soap and plenty of water. Call a physician or poison control center immediately.

**Eye contact**

Call a physician or poison control center immediately. In case of contact with eyes rinse thoroughly with water.

**Ingestion**

Do not induce vomiting. Rinse mouth. Call a physician or poison control center immediately.

**Notes to Physician****Treatment**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

water spray  
carbon dioxide (CO<sub>2</sub>)  
foam  
sand

**Specific hazards during fire fighting**

In the event of fire the following can be released:

hydrogen cyanide (hydrocyanic acid)  
hydrogen fluoride  
carbon monoxide (CO)  
nitrogen oxides (NO<sub>x</sub>)

**Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes.

Use breathing apparatus.

**Further information**

Contain the spread of the fire-fighting media.

Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Avoid contact with spilled product or contaminated surfaces.

Wear personal protective equipment. Unprotected persons must be kept away.

**Environmental Precautions**

Do not discharge into the drains/surface water/groundwater.

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

**Methods for Cleaning Up**

Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly, observing environmental regulations.

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Additional Advice**

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

**Storage**

Requirements for storage areas and containers  
 Keep container tightly closed.  
 Store in a place accessible by authorized persons only.  
 Store in original container.  
 Advice on common storage  
 Keep away from food, drink and animal feedingstuffs.  
 Storage stability  
 Storage temperature < 50 °C  
 Other data The storage temperature should not exceed 50 °C.  
 Suitable materials  
 aluminium composite film (min. 0,007 mm Aluminium)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.  
**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Diatomaceous earth (Respirable dust.)	61790-53-2	1.2 mg/m <sup>3</sup> (TWA)	2005	EH40 WEL

### Personal protective equipment

**Respiratory Protection** Wear respirator conforming to EN149FFP1. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand Protection** Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

**Eye protection** Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

**Skin and body protection** Wear standard coverall and type 3 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

### Hygiene measures

Avoid contact with skin, eyes and clothing.  
 Keep working clothes separately.  
 Wash hands immediately after work, if necessary take a shower.  
 Remove soiled and/or soaked clothing immediately and clean thoroughly before using again.  
 Garments that cannot be cleaned must be destroyed (burnt).

### Protective measures

If product is handled while not enclosed, and if contact may occur: complete suit protecting against chemicals

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form granular  
Colour light brown  
Odour slight, specific odour

## Safety data

Water Solubility dispersible  
Impact Sensitivity not impact-sensitive

## 10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.

Materials to avoid None.

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.

Stable under recommended storage conditions.

## 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat) > 2,000 mg/kg  
Test conducted with a similar formulation.

Acute Dermal Toxicity LD50 (rat) > 2,000 mg/kg  
Test conducted with a similar formulation.

Skin Irritation Slight irritant effect - does not require labelling. (rabbit)  
Test conducted with a similar formulation.

Eye Irritation Slight irritant effect - does not require labelling. (rabbit)  
Test conducted with a similar formulation.

Sensitization sensitizing (guinea pig)  
OECD Test Guideline 406, Magnusson & Kligman test  
Test conducted with a similar formulation.

Sensitization Non-sensitizing. (guinea pig)  
OECD Test Guideline 406, Buehler test  
Test conducted with a similar formulation.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to Fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 0.036 mg/l  
Exposure time: 96 h

Toxicity to daphnia EC50 (Water flea (*Daphnia magna*)) 0.01 mg/l  
Exposure time: 48 h

Toxicity to algae EC50 (*Pseudokirchneriella subcapitata*) 0.15 mg/l  
Growth rate Exposure time: 72 h

## 13. DISPOSAL CONSIDERATIONS

### Product

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

### Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.  
Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.  
Return large containers to supplier.  
Follow advice on product label and/or leaflet.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

## **14. TRANSPORT INFORMATION**

### **ADR/RID/ADNR**

UN-No **3077**

Labels 9

Packaging group III

Hazard no. 90

Description of the goods UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S.

(TRIFLOXYSTROBIN)

### **IMDG**

UN-No **3077**

Class 9

Packaging group III

EmS F-A , S-F

Marine pollutant Marine pollutant

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.

(TRIFLOXYSTROBIN )

### **IATA**

UN-No **3077**

Class 9

Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.

(TRIFLOXYSTROBIN )

### **UK 'Carriage' Regulations**

UN-No **3077**

Labels 9

Packaging group III

Hazard no. 90

Emergency action code 2Z

Description of the goods UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S.

(TRIFLOXYSTROBIN)

## **15. REGULATORY INFORMATION**

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- Trifloxystrobin
- Dibutyl naphthalenesulfonic acid, sodium salt

Symbol(s)

Xi Irritant

N Dangerous for the environment

R-phrase(s)

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S24 Avoid contact with skin.

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

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

## **16. OTHER INFORMATION**

### **Further information**

Text of R phrases mentioned in Section 2:

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.