

Safety Data Sheet

Panarex
Revised 23.08.2007

Certis

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1. Substance / preparation and company name

Panarex

Use of the Substance/ Preparation

Herbicide

Company identification

Certis

1b Mills Way, Boscombe Down Business Park, Amesbury, Wiltshire. SP4 7RX

Telephone: 01980 676500 Fax: 01980 626555

Emergency contacts:

For advice on medical emergencies, fires, spillages or chemical hazards ONLY – phone 0870 190 6777.

For further advice for medical professionals - The National Poisons Information Service: Tel: 0870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966.

For further advice for veterinary surgeons: 020 7635 9195

2. Composition / information on ingredients

Chemical name	Concentration (% by weight)	CAS	Symbol	R-phrases
Quizalofop-P-tefuryl	4.41	119738-06-6	T, N	22, 48/22, 50/53, 61, 62, 68
Tristyrylphenol, Ethoxylated	<5	99734-09-5	Xi	36/38, 52/53
Tetrapropylene benzene sulphonate Ca salt	<5	11117-11-6	C	21, 34, 52/53
N-Methyl-2-pyrrolidone	<5	872-50-4	Xi	36/38
Oleyl alcohol, ethoxylated	<15	9004-98-2	Xi	36/38
Heavy aromatic solvent naphtha	25-35	64742-94-5	Xn, N	65, 66, 67 51/53

3. Possible hazards

Risk of serious damage to eyes. 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

Ingestion: Do not induce vomiting. Rinse mouth with water. Obtain medical attention.

Skin contact: Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists.

Inhalation: Remove to fresh air. Obtain medical attention.

Eye contact: Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists.

5. Fire fighting measures

Hazardous combustion products: Irritating fumes. Oxides of carbon. Oxides of nitrogen.

Special fire fighting procedures: Do not discharge extinguishing waters into streams, rivers and lakes.

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Special protective equipment for fire fighters: Body covering protective clothing, full "turn-out" gear. Self-contained breathing apparatus.

Suitable extinguishing media:

Large fires: alcohol-type foam or universal-type foams.

Small fires: CO2 or dry chemical.

Unsuitable extinguishing media: Water jets

6. Accidental release measures

Personal precautions: Wear suitable protective equipment. Avoid contact with eyes and skin.

Environmental precautions: Prevent from entering sewer system, surface water or soil.

Methods for cleaning up:

Small Spills: Absorb on inert material such as sand, earth, and vermiculite. Collect for disposal.

Large Spills: Dike to contain spill. Pump excess material into suitable container (metal drums, metal tank, or such).

7. Handling and storage

Handling

Handling precautions: Do not get in eyes, avoid prolonged or repeated contact with skin, avoid breathing vapour, use with adequate ventilation, wash thoroughly after handling.

Storage

Storage requirements: Store in a cool, dry place.

8. Exposure controls / personal protection

Personal protection

Respiratory protection: Self-contained breathing apparatus in high vapour concentrations.

Hand protection/ protective gloves: Chemical resistant protective gloves

Eye protection: Safety glasses with side shields.

Skin protection: Wear protective clothing, such as long sleeves to minimize skin contact.

Other protective equipment: Eye bath. Safety shower

Engineering controls

Ventilation

General (mechanical) room ventilation is expected to be satisfactory. Special, local ventilation is needed at points where vapours can be expected to escape to the workplace air.

9. Physical and chemical properties

Appearance:	Pale Yellow Liquid
Odour:	Unspecified
pH:	6.6-7.2 (1% suspension in H2O)
Boiling point:	Not available
Density:	0.906 g/cm ³ at 20 °C
Solubility in water:	No data available
Flash point:	66.1 °C
Autoignition temperature:	>300 °C
Dynamic viscosity:	9.85 mPa.s at 20 °C
Surface tension:	33.9 dyn/cm at 25 °C

10. Stability and reactivity

Stability: This product is stable under normal storage and handling conditions.

Incompatible materials

Oxidizing agents.

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Strong acids.

Strong bases.

Hazardous combustion products

Irritating fumes.

Oxides of carbon.

Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. Toxicological information

Acute oral toxicity:	LD50 (rat):	> 2,000 mg/kg
Acute dermal toxicity:	LD50 (rat):	> 4,000 mg/kg
Acute inhalation toxicity:	LC50 (rat):	> 5.3 mg/l
	Exposure time:	4 h
Skin irritation:	Rabbit	Not irritant
Eye irritation:	Rabbit	Not irritant
Skin sensitisation:	Guinea Pigs	May cause sensitisation by skin contact

12. Ecological information

Bioaccumulative potential

Bioconcentration factor: 340

Acute toxicity fish:	LC50 (Rainbow trout):	8.2 mg/l
	Exposure time: 96 h	
Toxicity plants:	EC50 (<i>Selenastrum capricornutum</i>):	0.65 mg/l
	Exposure time: 72 h	
Toxicity aquatic invertebrates:	EC50 (<i>Daphnia magna</i>):	4.8 mg/l
	Exposure time: 48 h	

13. Disposal considerations

General:

Avoid discharge to sewers and natural waters. Dispose of according to local regulations.

Non-cleaned packages

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed. Containers that cannot be cleaned must be treated as waste.

14. Transport information

ADR/RID

UN Number:	3082
Class:	9 (M6)
Packing Group:	III
Hazard no:	90
Proper shipping name:	Environmentally hazardous substance, liquid, N.O.S. (contains quizalofop-P-tefuryl)

IMDG

UN Number:	3082
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Class: 9
Packing Group: III
Marine pollutant: Marine pollutant
Proper shipping name: Environmentally hazardous substance, liquid, N.O.S.
(contains quizalofop-P-tefuryl)

ICAO

UN Number: 3082
Class: 9 (M6)
Packing Group: III
Proper shipping name: Environmentally hazardous substance, liquid, N.O.S.
(contains quizalofop-P-tefuryl)

15. Regulatory information

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP3

Hazard symbols: Xi Irritant
N Dangerous for the environment

Risk phrases: R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases: S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S57 Use appropriate containment to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

16. Other information

Text of R phrases mentioned in Section 2

R21 Harmful in contact with skin.
R22 Harmful if swallowed.
R34 Causes burns.
R36/38 Irritating to eyes and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 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.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.

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