



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

1/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

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

Product information

Trade name PYRENONE 30-3 SE CONC 21272 BULKL
Product code (UVP) 05937868
Product code AE F027198 04 EC30 A1
Product code (EXP) D356
Specification 21272
Usage insecticide
Company Bayer Environmental Science
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain
Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Emergency telephone number 0800-220876 (UK 24 hr)
+44(0)1603-242424 (Overseas 24 hr)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Emulsifiable concentrate (EC)
Pyrethrins/PBO (tech) 3:30% w/w

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases	Concentration [%]
Pyrethrins including cinerins	8003-34-7 232-319-8	Xn, N	R20/21/22, R50/53	3.00
Piperonyl butoxide	51-03-6 200-076-7	N	R50/53	26.70
Alkylbenzene sulphonic acid, calcium salt	68953-96-8 273-234-6	Xi, N	R36/38, R51/53	> 25.00 - < 50.00
Block polymer		Xi	R36/38	> 25.00 - < 50.00
Alkylarylic solvent		Xn	R10, R20, R36/37/38	> 5.00 - < 25.00
Nonylphenol ethoxylate		Xn	R22, R36/38, R53	> 5.00 - < 25.00
Solvent Naphtha (petroleum), light aromatic	64742-95-6	Xn, N	R10, R37, R51/53, R65, R66, R67	> 5.00 - < 25.00
Aliphatic alcohol		Xn	R22	> 5.00 - < 25.00
Odourless kerosine	64742-47-8 265-149-8	Xn	R65, R66	> 1.00 - < 5.00

3. HAZARDS IDENTIFICATION



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

2/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

Risk advice to man and the environment

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

4. FIRST AID MEASURES

General advice

Remove contaminated, soaked clothing immediately and dispose of safely.

Inhalation

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple toilet milks. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

Notes to Physician

Symptoms

Local:, After skin contact: paresthesia (local).

Symptoms

Systemic:, dizziness, headache, anorexia, apathy, nausea, muscular fasciculation

Risks

This product/preparation contains a pyrethrin.
Must NOT be confused with organophosphorus compounds!

Treatment

Local treatment:
Initial treatment should be symptomatic and supportive.
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

Treatment

Systemic treatment:
In the event of a mouthful or more being ingested, the following measures should be considered:
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.
Monitoring of respiratory and cardiac functions.
Check for pulmonary oedema in event of inhalation.
Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.
There is no specific antidote.
Contraindication: atropine.
Contraindication: derivatives of adrenaline.
Recovery: Spontaneous.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

3/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

water spray
alcohol-resistant foam
dry powder
carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

In case of fire the evolution of dangerous gases is possible.

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep people away from and upwind of spill/leak.
Avoid contact with spilled product or contaminated surfaces.
When dealing with a spillage do not eat, drink or smoke.

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

Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).
Transfer collected material to heavy duty plastic drums and keep safe for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional Advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.
Check also for any local site procedures.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

The product is flammable.
Keep away from sources of ignition - No smoking.
Vapours may form explosive mixture with air.

**PYRENONE 30-3 SE CONC 21272 BULK**Version 1 / GB
1020000024874/8
Revision Date: 05.09.2005
Print Date: 27.03.2007**Storage**

Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.

Store in a place accessible by authorized persons only.

Keep away from direct sunlight.

Protect against frost.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage temperature 0 - 30 °C

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.

Additional Advice

Observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72)

Additional Advice

Observe: Exposure Limits In Air, Gp1: 1000mg/m³ / 200 ppm (aromatic-free or de-aromatised hydrocarbon mixes with < 1% aromatics < 5% n-hexane, < 25% cyclo/Isohexane TRGS 901 No. 72)**Personal protective equipment**

Respiratory Protection

Wear respirator conforming to EN140 type A filter.

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

Chemical resistant goggles must be worn.

Skin and body protection

Light protective clothing, PVC
PVC boots

Hygiene measures

When using, do not eat, drink or smoke.

Remove soiled clothing immediately.

Remove soaked clothing immediately.

Clean hands and face at work intervals and after work.

Work in an adequately ventilated room.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Colour

yellow to amber



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

5/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

Safety data

Flash Point	57 °C
Ignition temperature	> 450 °C The data refers to solvent naphtha petroleum.
Upper explosion limit	7.00 %(V) The data refers to solvent naphtha petroleum.
Lower explosion limit	0.8 %(V) The data refers to solvent naphtha petroleum.
Relative vapour density	1.00 The data refers to solvent naphtha petroleum.
Density	ca. 1.00 g/cm ³ at 20 °C
Water Solubility	miscible
Other Information	The product is flammable.

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
Acute Inhalation Toxicity	LC50 (rat) > 2.60 mg/l Exposure time: 4 h Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rabbit) > 2,000 mg/kg
Skin Irritation	slight irritant effect - does not require labelling (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). When inhaled in larger quantities, the solvent vapours cause a narcotic effect.

**PYRENONE 30-3 SE CONC 21272 BULKL**Version 1 / GB
1020000024876/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Bioaccumulation Bluegill sunfish
Bioconcentration factor (BCF): 471
The value mentioned relates to the active ingredient pyrethrin.

Bioaccumulation Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 260
The value mentioned relates to the active ingredient piperonyl butoxide.

Ecotoxicity effects

Toxicity to Fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 0.0052 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pyrethrin.

Toxicity to Fish LC50 (*Cyprinodon variegatus* (sheepshead minnow)) 3.94 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to daphnia EC50 (*Daphnia*) 0.012 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient pyrethrin.

Toxicity to daphnia EC50 (*Daphnia magna*) 0.51 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient piperonyl butoxide.

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with local authority regulations, take to hazardous waste disposal site or hazardous waste incineration plant.

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

Contaminated packaging

Small containers (< 10 litres) 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 litres) 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



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

7/8
Revision Date: 05.09.2005
Print Date: 27.03.2007

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No	1993
Labels	3
Packaging group	III
Hazard no.	30
Description of the goods	UN 1993 FLAMMABLE LIQUID, N.O.S. (PYRETHRINS, PETROLEUM DISTILLATES SOLUTION)
Special Provision	640E

IMDG

UN-No	1993
Class	3
Packaging group	III
EmS	F-E , S-E
Marine pollutant	Marine pollutant
Description of the goods	FLAMMABLE LIQUID, N.O.S. (PYRETHRINS, PETROLEUM DISTILLATES SOLUTION)

IATA

UN-No	1993
Class	3
Packaging group	III
Description of the goods	FLAMMABLE LIQUID, N.O.S. (PYRETHRINS, PETROLEUM DISTILLATES SOLUTION)

UK 'Carriage' Regulations

UN-No	1993
Labels	3
Packaging group	III
Hazard no.	30
Emergency action code	3Y
Description of the goods	UN 1993 FLAMMABLE LIQUID, N.O.S. (PYRETHRINS, PETROLEUM DISTILLATES SOLUTION)

Classification according to 'The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004' and any subsequent amendments.

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:

- Pyrethrins including cinerins
- Piperonyl butoxide

Symbol(s)

Xn	Harmful
N	Dangerous for the environment



PYRENONE 30-3 SE CONC 21272 BULKL

Version 1 / GB
102000002487

8/8
Revision Date: 05.09.2005
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R-phrases(s)
R22 Harmful if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)
S35 This material and its container must be disposed of in a safe way.
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: II (Moderately hazardous)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

R10	Flammable.
R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
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.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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.
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