



Safety data-sheet (91/155 EEC)
Printed 13.07.2004
Revision 19.02.2004
Pyrol

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

Name of product Pyrol

Manufacturer/distributor W. Neudorff GmbH KG
An der Mühle 3, D-31860 Emmerthal
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E-Mail info@neudorff.de
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Advice Betriebsleitung / Labor
Phone +49- (0) 5155/624-102 (-165)

Emergency advice Giftzentrale Berlin
Phone +49- (0) 30/19240

Recommended intended purpose(s)
Insecticide concentrate.

Effect of the substance / the formulation
Insecticide, contains pyrethrins - works as a neurotoxin.
Contains rape seed oil, which leads to death by suffocation of the insects and which affects the cell walls of the insects.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Pesticide (insecticide)

Hazardous ingredients

CAS-No.	EC-No.	Name	[%]	Classification
		pyrethrins including cinerins	0,5	Xn R20/21/22; N; R50-53

Additional advice
Contains rapeseed oil.

3. HAZARDS IDENTIFICATION

R-phrases

43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special hazards information for humans and environment

No risks known if applied according to instructions.

Keep away out of waters.



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4. FIRST AID MEASURES

General information

Take affected person into fresh air.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

In case of eye contact

In case of contact with eyes rinse thoroughly with water.

In case of ingestion

Refer to medical treatment.

Physician's information / possible symptoms

No produkt specific symptoms known.

Treatment (Advice to doctor)

Treat symptoms.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water

Foam

Dry powder

Carbon dioxide

Extinguishing media which must not be used for safety reasons
not required

6. ACCIDENTAL RELEASE MEASURES

Personal precautions such as

Use personal protective clothing.

Environmental precautions such as

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

Methods for cleaning up such as

Take up with absorbent material (e.g. general-purpose binder).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion

Keep away from sources of ignition

Requirements for storage rooms and vessels

Keep only in original container.



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Advice on storage compatibility
Do not store together with animal feedstuffs.
Do not store together with food.

Further information on storage conditions
Keep container in a well-ventilated place
Store in a dry place.
Keep in a cool place.

Storage group 12

Information on storage stability
Storage temperature may not exceed 35°C
Protect from light.

Recommendation(s) for intended use
Use only as insecticide spray according to the operating instructions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m ³]	[ml/m ³]	Remark
008003-34-7	Pyrethrum	MAK, EU	5 E		25

Respiratory protection
not required

Hand protection
Synthetic rubber gloves
PVC or PE gloves

Eye protection
safety goggles

Skin protection
light protective clothing

General protective measures
Avoid contact with eyes and skin

Hygiene measures
Clean skin thoroughly after working.
At work do not eat, drink, smoke or take drugs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Colour	Odour
liquid	yellow	characteristic



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Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	6,6	20 °C			1% dissolved in water
boiling point (decomposition)	ca. 300 °C				
melting point	-17,6 °C				
Flash point	145 °C				
Combustion temperature	> 400 °C				
Density	0,92 g/cm ³	20 °C			
Solubility in water					emulsifiable
Viscosity I dynamic	67,1 mPa*s	20 °C			

10. STABILITY AND REACTIVITY

Conditions to avoid

Evolution of heat.

Materials to avoid

Reactions with oxidising agents.

Hazardous decomposition products
unknown

Additional information

No decomposition during correct storage.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD 50 acute oral	> 2000 mg/kg	rat	OECD 401	
LD 50 acute dermal	> 2000 mg/kg	rat	OECD 402	
LC 50 acute inhalation	2,36 mg/l	rat	OECD 403	highest checkable concentration
Irritability skin	non-irritant	rabbit	OECD 404	



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	Value/Validation	Species	Method	Remark
Irritability eye	non-irritant	rabbit eye	OECD 405	
Sensitization skin	slightly sensitising	Guinea pig	OECD 406	

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	The product is biodegradable.			

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 3,59 mg/l (96 h)	rainbow trout	OECD 203	
Daphnia	EC50 1,55 mg/l (48 h)	Daphnia magna	OECD 202	
Algae	EC50 65,1 mg/l (72 h)	Desmodesmus Subspicatus		

General regulation

Not toxic to bees.

13. DISPOSAL CONSIDERATIONS

Waste code No.	Name of waste
02 01 08*	agrochemical waste containing dangerous substances
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste incineration plant.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Recommended cleansing agent

Water with mild detergent.

General information

Small amounts out of privat households should give away to the official disposal sites.
Follow the intructions !



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14. TRANSPORT INFORMATION

Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

UN 3082 Umweltgefährdender Stoff, flüssig, n.a.g., enthält Pyrethrin-Gemisch, 9, III

Kleinmengenregelung bei 3I und 12I.

15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Classification

Xi Irritant
N Dangerous for the environment

R-phrases

43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

13 Keep away from food, drink and animal feedingstuffs.
2 Keep out of the reach of children.
20/21 When using do not eat, drink or smoke.
24 Avoid contact with skin.
36 Wear suitable protective clothing.

Hazardous ingredients for labeling

0,5 % pyrethrines incl.cinerines, rapesees oil

National regulations

Water hazard class 3 self-classification

VOC standard

VOC content 0,5 %

16. OTHER INFORMATION

Recommend uses and restrictions

Follow the instructions !

Authorized crop protection pesticide.

Further information

The information provided in this Safety Data Sheet is supplied in good faith is accurate at the date of its publication. The information will be updated as and when appropriate. It is not a specification of the product nor does it list the uses.

Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)



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R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.