

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 09.08.2005

Product: **BIRLANE 240 G/L EC**

Version: 1.4

188 09 I

(30131943/SDS_CPA_EU/EN)

Date of print 11.11.2005

1. Substance/preparation and company identification

BIRLANE 240 G/L EC

Company:

BASF Aktiengesellschaft

67056 Ludwigshafen

Contact address:

Unternehmensbereich Pflanzenschutz

Telephone: 0621-60-79321/ 79145

Telefax number: 0621-60-79519

E-mail address: Produktinformation-Pflanzenschutz@basf-ag.deEmergency information:

Fire brigade BASF Ludwigshafen

Telephone: 0621-60-43333

Telefax number: 0621-60-92664

2. Composition/information on ingredients

Chemical nature

crop protection product, insecticide, emulsion concentrate (EC)

Hazardous ingredients

chlorfenvinphos

Content (W/W): 24.6 %

CAS Number: 470-90-6

EC-Number: 207-432-0

INDEX-Number: 015-071-00-3

Hazard symbol(s): T+, N

R-phrases: 24, 28, 50/53

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calciumdodecylbenzenesulfonate

Content (W/W): <= 2.5 %
CAS Number: 26264-06-2
EC-Number: 247-557-8
Hazard symbol(s): Xi
R-phrases: 10, 36/38, 52/53

Solvent Naphtha light

Content (W/W): 70 %
CAS Number: 64742-95-6
EC-Number: 265-199-0
INDEX-Number: 649-356-00-4
Hazard symbol(s): Xn, N
R-phrases: 10, 37, 51/53, 65, 66, 67

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

Flammable.
Harmful in contact with skin.
Toxic if swallowed.
Very toxic by inhalation.
Irritating to eyes and skin.
May cause sensitization by skin contact.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

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On ingestion:
Do not induce vomiting due to aspiration hazard.

Note to physician:
Treatment: Treat according to symptoms (decontamination, vital function), administer atropine for cholinesterasis inhibition.

5. Fire-fighting measures

Suitable extinguishing media:
foam, dry extinguishing media, carbon dioxide, water spray

Specific hazards:
carbon monoxide, hydrogen chloride, nitrogen oxides, toxic gas, phosphoroxide (e.g. phosphorpentoxide)
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods for cleaning up or taking up:
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of contaminated material as prescribed.
Cleaning operations should be carried out only while wearing breathing apparatus. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Storage

Segregate from foods and animal feeds. Segregate from oxidants.

Unsuitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed. Keep container in a well-ventilated place. Avoid all sources of ignition: heat, sparks, open flame.

Storage stability:

Storage duration: 24 Months

The stated storage temperature should be noted.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 30 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Particle filter EN 143 Type P3 (high efficiency (solid and liquid particles of toxic and very toxic substances)).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

Body protection:

Protective suit, safety shoes (according to DIN-EN 346), antistatic

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General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work.

9. Physical and chemical properties

Form:	in water, liquid
Colour:	red
Odour:	aromatic, of the solvent contained in the product
pH value:	4.7 (9.75 g/l)
Boiling point:	166 - 180 °C
Flash point:	51 °C
Lower explosion limit:	0.7 %(V)
Upper explosion limit:	8.0 %(V)
Self-ignition temperature:	463 °C
Vapour pressure:	3 hPa (20 °C) 15 hPa (50 °C)
Density:	0.975 g/cm ³ (20 °C)
Solubility in water:	emulsifiable (20 °C)

10. Stability and reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
mild steel

Hazardous reactions:
No hazardous reactions known.

Hazardous decomposition products:
No hazardous decomposition products known.

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11. Toxicological information

LD50/oral/rat/male/female: 38 mg/kg

Information on: chlorfenvinphos
LC50/by inhalation/rat: 0.05 mg/l / 4 h

LD50/dermal/rat/male/female: 563 mg/kg

Primary skin irritation/rabbit: Irritant.

Primary irritations of the mucous membrane/rabbit: Irritant.

Sensitization/guinea pig: Caused sensitization in animal studies.

Additional information:

The substance causes a decrease in cholinesterase activity.
Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Toxicity to fish:
Oncorhynchus mykiss/LC50 (96 h): 1.23 mg/l

Aquatic invertebrates:
Daphnia magna/EC50 (48 h): 2.27 mg/l

Aquatic plants:
Scenedesmus subspicatus/EC50 (96 h): 1.94 mg/l

Persistence and degradability

Elimination information

Information on: chlorfenvinphos

Evaluation: Not readily biodegradable (by OECD criteria).

Additional information

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition. Do not discharge product into the environment without control.

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13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in accordance with official regulations after being thoroughly cleaned.

Uncleaned empties should be disposed of in the same manner as the contents.

14. Transport information

Land transport

ADR	: Class	6.1
	Packaging group	II
	UN-number	3017
	Designation of goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Contains: CHLORFENVINPHOS 25%, SOLVENT NAPHTHA)

RID	: Class	6.1
	Packaging group	II
	UN-number	3017
	Designation of goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Contains: CHLORFENVINPHOS 25%, SOLVENT NAPHTHA)

Inland waterway transport

ADNR	: Class	6.1
	Packaging group	II
	UN-number	3017
	Designation of goods	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Contains: CHLORFENVINPHOS 25%, SOLVENT NAPHTHA)

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Sea transport

IMDG/GGVSee	: Class	6.1
	Packaging group	II
	UN-number	3017
	Marine pollutant	YES
	Exact technical name	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (contains CHLORFENVINPHOS 25%, SOLVENT NAPHTHA)

Air transport

ICAO/IATA	: Class	6.1
	Packaging group	II
	UN-number	3017
	Exact technical name	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (contains CHLORFENVINPHOS 25%, SOLVENT NAPHTHA)

15. Regulatory information**Regulations of the European union (Labelling) / National legislation/Regulations****EEC Directives:**

Hazard symbol(s)

T+ Very toxic.
 N Dangerous for the environment.

R-phrases(s)

R10 Flammable.
 R21 Harmful in contact with skin.
 R26 Very toxic by inhalation.
 R25 Toxic if swallowed.
 R36/38 Irritating to eyes and skin.
 R43 May cause sensitization by skin contact.
 R65 Harmful: may cause lung damage if swallowed.
 R67 Vapours may cause drowsiness and dizziness.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

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S1	Keep locked up.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.
S35	This material and its container must be disposed of in a safe way.

| Hazard determinant component(s) for labelling: CHLORFENVINPHOS, Solvent Naphtha light

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T+	Very toxic.
N	Dangerous for the environment.
Xi	Irritant.
Xn	Harmful.
24	Toxic in contact with skin.
28	Very toxic if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
10	Flammable.
36/38	Irritating to eyes and skin.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
37	Irritating to respiratory system.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.