



## ENVIDOR

Version 1 / GB  
10200007496

1/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

---

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name ENVIDOR  
Product code (UVP) 05304954

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

#### 1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Limited  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain

Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Responsible Department Email: [ukinfo@bayercropscience.com](mailto:ukinfo@bayercropscience.com)

#### 1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)  
+44(0)1635-563000 (Overseas 24 hr)

---

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Carc.Cat.3, R40  
R43

#### 2.2 Label elements

##### Labelling according to specific UK regulations:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'. Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Spirodiclofen

Symbol(s)  
Xn Harmful

**ENVIDOR**Version 1 / GB  
102000007496

2/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

## R-phrases(s)

R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

## S-phrases(s)

S 2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feedingstuffs.
S20/21	When using do not eat, drink or smoke.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**

Suspension concentrate (=flowable concentrate)(SC)  
Spirodiclofen 240 g/l

**Hazardous components**

R-phrases(s) according to EC directive 67/548/EEC  
Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Concentration [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Spirodiclofen	148477-71-8	Carc.Cat.3 R40 R43	Carc. 2, H351 Skin Sens. 1, H317	22.30
Ethoxylated polyaryphenol	99734-09-5	R52/53	Aquatic Chronic 3, H412	> 1.00 - < 25.00
Glycerine	56-81-5 200-289-5	Not classified	Not classified	> 1.00

**Further information**

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**



## ENVIDOR

Version 1 / GB  
10200007496

3/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

### General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

### Inhalation

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

### Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

### Ingestion

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

### 4.2 Most important symptoms and effects, both acute and delayed

No symptoms known or expected.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Treatment

Treat symptomatically.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

There is no specific antidote.

---

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Sand

### 5.2 Special hazards arising from the substance or mixture

In the event of fire the following may be released:

Hydrogen chloride (HCl)  
Carbon monoxide (CO)

### 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

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

In the event of fire, wear self-contained 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.



## ENVIDOR

Version 1 / GB  
102000007496

4/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled product or contaminated surfaces.  
Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.  
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).

#### 6.3 Methods and materials for containment and cleaning up

##### Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Ensure adequate ventilation.

##### 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 clothing immediately and clean thoroughly before using again.  
Garments that cannot be cleaned must be destroyed (burnt).

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Requirements for storage areas and containers

Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Store in a place accessible by authorized persons only.  
Keep away from direct sunlight.

##### Advice on common storage

Keep away from food, drink and animal feedingstuffs.

##### Suitable materials

HDPE (high density polyethylene)

**ENVIDOR**Version 1 / GB  
102000007496

5/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012**7.3 Specific end uses**

Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Spirodiclofen	148477-71-8	0.39 mg/m <sup>3</sup> (TWA)		OES BCS*
Glycerine (Mist.)	56-81-5	10 mg/m <sup>3</sup> (TWA)	12 2011	EH40 WEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**8.2 Exposure controls**

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.

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	No personal respiratory protective equipment normally required. 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. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

**ENVIDOR**Version 1 / GB  
102000007496

6/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

---

Form	suspension
Colour	white to light beige
Odour	weak, characteristic
pH	4.5 - 5.5 at 100 % (23 °C)
Flash point	> 100 °C No flash point - Determination conducted up to the boiling point.
Density	ca. 1.08 g/cm <sup>3</sup> at 20 °C
Water solubility	miscible

**9.2 Other information**

Further safety related physical-chemical data are not known.

---

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under normal conditions.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5 Incompatible materials**

Store only in the original container.

**10.6 Hazardous decomposition products**

No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute oral toxicity	LD50 (rat) > 2,500 mg/kg
Acute inhalation toxicity	LC50 (rat) > 3.146 mg/l Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 4,000 mg/kg
Skin irritation	No skin irritation (rabbit)

**ENVIDOR**Version 1 / GB  
102000007496

7/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

---

Eye irritation	No eye irritation (rabbit)
Sensitisation	Sensitising (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test
Assessment repeated dose toxicity	Spirodiclofen did not cause specific target organ toxicity in experimental animal studies.
Assessment Mutagenicity	Spirodiclofen was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Assessment Carcinogenicity	Spirodiclofen caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver. Spirodiclofen caused at high dose levels an increased incidence of tumours in rats in the following organ(s): uterus, testes. The tumours seen with Spirodiclofen were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.
Assessment Toxicity to Reproduction	Spirodiclofen did not cause reproductive toxicity in a two-generation study in rats.
Assessment developmental toxicity	Spirodiclofen did not cause developmental toxicity in rats and rabbits.

---

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) > 262 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 450.5 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Pseudokirchneriella subcapitata) > 20.8 mg/l Growth rate; Exposure time: 96 h No acute toxicity was observed at its limit of water solubility.

**12.2 Persistence and degradability**

Biodegradability Not applicable for this mixture.

**12.3 Bioaccumulative potential**

Bioaccumulation Not applicable for this mixture.

**12.4 Mobility in soil**

Mobility in soil Not applicable for this mixture.

**12.5 Results of PBT and vPvB assessment**

Not relevant as no chemical safety report is necessary.

**12.6 Other adverse effects**



## ENVIDOR

Version 1 / GB  
102000007496

8/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

Additional ecological information  
No other effects to be mentioned.

---

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or 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 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

---

## SECTION 14: TRANSPORT INFORMATION

**According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.**

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

---

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**





## ENVIDOR

Version 1 / GB  
102000007496

9/9

Revision Date: 14.08.2012  
Print Date: 21.08.2012

Further information

WHO-classification: III (Slightly hazardous)

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

---

## SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of the hazard statements mentioned in Section 3

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

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.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

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