

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 05.12.2013  
Product: **STROBY® WG**

Version: 4.0

(30274525/SDS\_CPA\_AU/EN)

Date of print 22.01.2014

## 1. Substance/preparation and company identification

### **STROBY® WG FUNGICIDE**

Use: crop protection product, fungicide

Manufacturer/supplier:

BASF Australia Limited (ABN 62 008 437 867)  
Level 12, 28 Freshwater Place Southbank  
Victoria 3006, AUSTRALIA  
Telephone: +61 3 8855-6600  
Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]  
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

HAZARDOUS SUBSTANCE, DANGEROUS GOOD

Limited evidence of a carcinogenic effect.

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

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Do not empty into drains, this material and its container must be disposed of in a safe way.

Wear suitable protective clothing and gloves.

If swallowed, seek medical advice immediately and show this container or label.

Use appropriate container to avoid environmental contamination.

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### 3. Composition/information on ingredients

#### Chemical nature

crop protection product, fungicide, water dispersible granules

#### Hazardous ingredients

| Kresoxim-methyl

Content (W/W): 50 %  
CAS Number: 143390-89-0  
Hazard symbol(s): Xn, N  
R-phrases: 40, 50/53

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

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### 4. First-Aid Measures

General advice:  
Remove contaminated clothing.

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

On skin contact:  
Wash thoroughly with soap and water.

On contact with eyes:  
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:  
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:  
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.  
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

Suitable extinguishing media:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Specific hazards:  
carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

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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.

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## 6. Accidental Release Measures

**Personal precautions:**

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

**Environmental precautions:**

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

**Methods for cleaning up or taking up:**

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

**Protection against fire and explosion:**

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

no exposure standard allocated

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### 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), butyl rubber (0.7 mm) and other

#### Eye protection:

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

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	granules	
Colour:	dark brown	
Odour:	sulfur-like	
pH value:	approx. 5 - 8 (20 °C)	
Melting point:	The substance / product decomposes therefore not determined.	
Boiling point:	The product is a non-volatile solid.	
Flash point:	not applicable	
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Lower explosion limit:	25 g/m <sup>3</sup> The lower explosion limit of dust has been determined.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Self ignition:	Temperature: 248 °C	(Method: Directive 92/69/EEC, A.16)

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Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating (Directive 92/69/EEC, A.17)

Vapour pressure: not applicable

Bulk density: approx. 630 kg/m<sup>3</sup>  
(20 °C)  
Apparent density after tamping

Relative vapour density (air): not applicable

Solubility in water: dispersible  
Partitioning coefficient n-octanol/water (log Pow): not applicable

Viscosity, dynamic: not applicable

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## 10. Stability and Reactivity

Conditions to avoid:  
See MSDS section 7 - Handling and storage.

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

Substances to avoid:  
strong oxidizing agents, strong bases, strong acids

Hazardous reactions:  
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

LD50 rat (oral): > 5,000 mg/kg (Directive 84/449/EEC, B.1)  
No mortality was observed.

LC50 rat (by inhalation): > 5.7 mg/l 4 h (OECD Guideline 403)  
No mortality was observed. Tested as dust aerosol.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed.

### **Irritation**

Assessment of irritating effects:  
Not irritating to the eyes. Not irritating to the skin.

Primary skin irritation rabbit: non-irritant (Directive 84/449/EEC, B.4)

Primary irritations of the mucous membrane rabbit: non-irritant (Directive 84/449/EEC, B.5)

### **Sensitization**

Assessment of sensitization:  
There is no evidence of a skin-sensitizing potential.

Mouse Local Lymph Node Assay (LLNA) mouse: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 429)

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### **Genetic toxicity**

Assessment of mutagenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### **Carcinogenicity**

Assessment of carcinogenicity:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Kresoxim-methyl  
Assessment of carcinogenicity:  
Indication of possible carcinogenic effect in animal tests.  
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### **Reproductive toxicity**

Assessment of reproduction toxicity:  
The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Information on: Kresoxim-methyl  
Assessment of reproduction toxicity:  
The results of animal studies gave no indication of a fertility impairing effect.  
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### Developmental toxicity

#### Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Information on: Kresoxim-methyl

#### Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

### Other relevant toxicity information

Misuse can be harmful to health.

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## 12. Ecological Information

### Ecotoxicity

#### Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Toxicity to fish:

| LC50 (96 h) approx. 0.15 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

#### Aquatic invertebrates:

| EC50 (48 h) 0.31 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

#### Aquatic plants:

| EC50 (72 h) 0.303 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

### Mobility

#### Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Kresoxim-methyl

#### Assessment transport between environmental compartments:

The substance will not evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

### Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

| Information on: methyl (E)-2-methoxyimino-2-(2-(o-tolyloxymethyl)phenyl)acetate

Assessment biodegradation and elimination (H<sub>2</sub>O):

Poorly biodegradable.

### Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Kresoxim-methyl

Bioaccumulation potential:

Bioconcentration factor: 220 (28 d), Oncorhynchus mykiss (OPP 72-6 (EPA-Guideline))

Accumulation in organisms is not to be expected.  
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### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains KRESOXIM-METHYL 50%)

### Further information

Hazchem Code:2Z

IERG Number:47

### Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHSM
Marine pollutant:	YES



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Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
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**Air transport**

IATA/ICAO

Hazard class: 9  
 Packing group: III  
 ID number: UN 3077  
 Hazard label: 9, EHSM  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (contains KRESOXIM-METHYL 50%)

**Further information**

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 Kg or 500 L.

**15. Regulatory Information**

Poisons Schedule: Not scheduled

**Regulations of the European union (Labelling)****EEC Directives:**

## Hazard symbol(s)

Xn Harmful.  
 N Dangerous for the environment.

## R-phrase(s)

R40 Limited evidence of a carcinogenic effect.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S2 Keep out of the reach of children.  
 S13 Keep away from food, drink and animal feeding stuffs.  
 S20/21 When using do not eat, drink or smoke.  
 S29/35 Do not empty into drains, this material and its container must be disposed of in a safe way.  
 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.

Hazard determining component(s) for labelling: KRESOXIM-METHYL

**Other regulations**

Carc. Cat. 3 - Carcinogenic substances Category 3: Substances which cause concern for man owing to possible carcinogenic effects.

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)

**Registration status:**

AICS, AU                                blocked / not listed  
 APVMA 51346

**16. Other Information**

Full text of hazard symbols and R-phrases if mentioned as hazardous components in section 3:

Xn	Harmful.
N	Dangerous for the environment.
40	Limited evidence of a carcinogenic effect.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.