

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 19.12.2013

Product: **INTERVIX HERBICIDE FOR CLEARFIELD CROPS**

Version: 3.1

(30252799/SDS\_CPA\_AU/EN)

Date of print 19.12.2013

## 1. Substance/preparation and company identification

### **INTERVIX HERBICIDE FOR CLEARFIELD CROPS**

Use: crop protection product, herbicide

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

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

Harmful 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.

## 3. Composition/information on ingredients

Chemical nature

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crop protection product, herbicide, Soluble concentrate (SL)

Preparation based on: imazapyr, imazamox, ammonium salts

Hazardous ingredients

imazamox

Content (W/W): 3.3 %

CAS Number: 114311-32-9

Hazard symbol(s): N

R-phrases: 50/53

Imazapyr

Content (W/W): 1.5 %

CAS Number: 81334-34-1

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.

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:

Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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#### 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Specific hazards:

carbon monoxide, ammonia, carbon dioxide, nitrogen oxides

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.

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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:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

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: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

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:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage

Segregate from foods and animal feeds.

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

Protect from temperatures below: -10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

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

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

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no exposure standard allocated

#### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

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:	liquid
Colour:	yellow to amber
Odour:	faint odour, aliphatic
pH value:	approx. 5 - 7 (20 - 54 °C) (measured with the undiluted substance)
solidification temperature:	approx. -14 °C (1,013.3 hPa)
Boiling point:	approx. 100 °C (1,013.3 hPa) Information applies to the solvent.
Flash point:	
Flammability:	Non-flammable. not flammable

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Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	398 °C
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.
Vapour pressure:	approx. 23.3 hPa (20 °C) Information applies to the solvent.
Density:	approx. 1.07 g/cm <sup>3</sup> (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	soluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	not determined

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

Thermal decomposition: not determined

**Substances to avoid:**

strong bases, strong acids, strong oxidizing agents

**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 (OECD Guideline 401)

LC50 rat (by inhalation): > 6.18 mg/l 4 h (OECD Guideline 403)

LD50 rabbit (dermal): > 5,000 mg/kg (OECD Guideline 402)

### Irritation

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

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: Slightly irritating. (OECD Guideline 405)

### Sensitization

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

Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)

### 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.

Information on: imazapyr

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammals.

Information on: imazamox

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammals.  
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### **Carcinogenicity**

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### **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: imazapyr

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Information on: imazamox

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.

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC50 (96 h) > 83.2 mg/l, *Oncorhynchus mykiss* (EPA 72-1, Flow through.)

Aquatic invertebrates:

EC50 (48 h) > 86.6 mg/l, *Daphnia magna* (OPP 72-2 (EPA-guideline), static)

Aquatic plants:

EC50 (72 h) > 90.6 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201, static)

## 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: Imazapyr

Assessment transport between environmental compartments:

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

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Information on: imazamox

Assessment transport between environmental compartments:

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

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

## 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: Imazapyr

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

Not readily biodegradable (by OECD criteria).

Information on: imazamox

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

Not readily biodegradable (by OECD criteria).

## 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: imazamox

Bioaccumulation potential:

Bioconcentration factor: < 1, *Lepomis macrochirus* (OECD-Guideline 305)

Does not accumulate in organisms.

Information on: Imazapyr

Bioaccumulation potential:

Bioconcentration factor: < 1.0, *Lepomis macrochirus*

Does not accumulate in organisms.

## Additional information



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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:**

Not classified as a dangerous good under transport regulations

**Sea transport**  
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**  
IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

Poisons Schedule: Not scheduled

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

R-phrase(s)  
R52/53

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

S-phrase(s)  
S2  
S13  
S20/21

Keep out of the reach of children.  
Keep away from food, drink and animal feeding stuffs.  
When using do not eat, drink or smoke.

**Other regulations**

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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  
APVMA 59735

blocked / not listed

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## 16. Other Information

Recommended use: herbicide

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

N Dangerous for the environment.

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

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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.