

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 18.12.2013

Product: **RAPTOR WG SELECTIVE HERBICIDE**

Version: 2.1

(30133480/SDS\_CPA\_AU/EN)

Date of print 19.12.2013

## 1. Substance/preparation and company identification

### **RAPTOR WG SELECTIVE HERBICIDE**

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

DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE

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.

This material and its container must be disposed of in a safe way.

Use appropriate container to avoid environmental contamination.

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### 3. Composition/information on ingredients

#### Chemical nature

crop protection product, herbicide, Granule (GR)

#### Hazardous ingredients

imazamox

Content (W/W): 70 %  
CAS Number: 114311-32-9  
Hazard symbol(s): N  
R-phrase(s): 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:

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:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, 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.

#### On ingestion:

Rinse mouth immediately and then drink plenty 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 symptoms are possible

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  
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.  
Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly.

Protection against fire and explosion:  
Dust can form an explosive mixture with air. Avoid dust formation. Avoid deposition of dust. 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: Protect against moisture. Keep away from heat. Protect from direct sunlight.

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

no exposure standard allocated

### Personal protective equipment

#### Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. 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:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

Form: granules  
Colour: off-white  
Odour: odourless

pH value: 2.8  
(2 %(m))  
(as a dispersion)

Melting point: The substance / product decomposes therefore not determined.

Explosion hazard: not explosive  
Information on: imazamox  
Fire promoting properties: not fire-propagating

(Regulation 440/2008/EC,  
A.17)

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Vapour pressure: negligible  
Bulk density: 430 kg/m<sup>3</sup>  
(20 °C)  
Relative vapour density (air): not determined  
Solubility in water: dispersible  
Partitioning coefficient n-octanol/water (log Pow): not applicable  
Viscosity, dynamic: not applicable  
Viscosity, kinematic: not applicable  
Molar mass: 305.3 g/mol

**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.

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents

**Hazardous reactions:**

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

**Hazardous decomposition products:**

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

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## 11. Toxicological Information

### Acute toxicity

LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 5.8 mg/l 4 h

LD50 rat (dermal): > 4,000 mg/kg

### Irritation

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

### **Sensitization**

guinea pig: Skin sensitizing effects were not observed in animal studies.

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:  
Not classified, due to lack of data.

### **Genetic toxicity**

Assessment of mutagenicity:  
Not classified, due to lack of data.

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.

Information on: Imazamox  
Assessment of carcinogenicity:  
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.  
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### **Reproductive toxicity**

Assessment of reproduction toxicity:  
Not classified, due to lack of data.

### **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

Information on: imazamox

Toxicity to fish:

LC50 (96 h) > 122 ppm, *Oncorhynchus mykiss*  
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Information on: imazamox

Aquatic invertebrates:

EC50 >122 ppm, *Daphnia magna*  
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Information on: imazamox

Aquatic plants:

EC50 (120 h) > 0.037 mg/l, algae  
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### Persistence and degradability

Information on: imazamox

Assessment biodegradation and elimination (H<sub>2</sub>O):Not readily biodegradable (by OECD criteria).  
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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 disposed of or incinerated in accordance with 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, EHS

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains IMAZAMOX 70%)

### Further information

Hazchem Code:2Z

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IERG Number:47

**Sea transport**

## IMDG

Hazard class: 9  
 Packing group: III  
 ID number: UN 3077  
 Hazard label: 9, EHSM  
 Marine pollutant: YES  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (contains IMAZAMOX 70%)

**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 IMAZAMOX 70%)

**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: Drugs &amp; Poisons, Schedule 5

Hazard symbol(s)  
 N Dangerous for the environment.

R-phrase(s)  
 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.  
 S35 This material and its container must be disposed of in a safe way.  
 S57 Use appropriate container to avoid environmental contamination.

**Hazard determining component(s) for labelling: imazamox**



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**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)

**Registration status:**

AICS, AU                                  blocked / not listed  
 APVMA 50854

**16. Other Information**

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.

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.