

# Material Safety Data Sheet

CS: 1.4.21

Page: 1 of 4

Infosafe No™ 3NU59 Issue Date :August 2009 ISSUED by CRPCARE CS: 1.4.21

Product Name **RAPTOR® WG Herbicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** RAPTOR® WG Herbicide  
**Product Code** 0706  
**Product Type** Group B Herbicide  
**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address** Unit 15/16 Metroplex Avenue Murarrie  
Queensland 4172 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 7 3909 2000  
Fax: +61 7 3909 2010  
**Recommended Use** For the pre-emergence control of certain annual grass and broadleaved weeds in field peas, legume based pastures, lucerne, peanuts, and soybeans as specified in the Directions for Use table.  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R36 Irritating to eyes.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
**Other Information** Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Imazamox	114311-32-9	700 g/kg
	Kaolin clay	1332-58-7	100 - 300 g/kg
	Dispersants		to 100%

## 4. FIRST AID MEASURES

**Inhalation** Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.  
**Ingestion** If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.  
**Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
**Advice to Doctor** Treat symptomatically.

# Material Safety Data Sheet

CS: 1.4.21

Page: 2 of 4

Infosafe No™ 3NU59 Issue Date :August 2009 ISSUED by CRPCARE CS: 1.4.21

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## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Water fog, foam, carbon dioxide or dry chemical.

**Hazards from Combustion Products** Avoid using large volumes of water which would spread the product. Avoid strong water jets - airborne dusts may form a flammable dust cloud. If involved in a major fire, could evolve oxides of carbon or nitrogen.

**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Recover the product by sweeping up or vacuuming without raising dust. Pick up with a shovel and broom. Collect spilled material and waste in sealable open-top type containers for disposal.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Avoid generating dusts while handling the product and mixing. Do not mix, store or apply the product or spray solutions of the product in aluminium, galvanised steel or unlined steel containers or spray tanks.

**Conditions for Safe Storage** Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.

**Other Information** Keep away from sources of ignition and protect from exposure to fire and heat. Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** NOHSC has set the following exposure standard for kaolin clay : TLV (TWA) 10 mg/m<sup>3</sup>, STEL -.

**Engineering Controls** Use in a well ventilated area only.

**Respiratory Protection** Avoid generating and inhaling dusts. If dusts are present, wear a class P1 dust mask.

**Personal Protective Equipment** When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

**Hygiene Measures** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Solid

**Appearance** Tan granules

**Melting Point** 166 - 166.7 for imazamox

**Solubility in Water** Disperses in water.

**pH Value** 2.85 (2% aqueous solution)

**Vapour Pressure** <1.3 x 10<sup>-2</sup> mPa @ 25°C

**Octanol/Water Partition Coefficient** Kow Log P is -1.03

**Flammability** Not flammable  
May form dust clouds.  
Danger of dust explosion.

# Material Safety Data Sheet

CS: 1.4.21

Page: 3 of 4

Infosafe No™ 3NU59	Issue Date :August 2009	ISSUED by CRPCARE	CS: 1.4.21
--------------------	-------------------------	-------------------	------------

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**Other Information** pKa is 2.3, 3.3, 10.8

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.

**Incompatible Materials** Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.  
Not compatible with aluminium.

**Hazardous Reactions** Keep away from strong oxidising agents.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.

**Inhalation** The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.

**Ingestion** The concentrate is of low toxicity if swallowed.

**Skin** Prolonged contact with the concentrate may cause irritation.

**Eye** The concentrate will cause irritation of the eyes.

**Chronic Effects** Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Reproductive Toxicity** Data indicates no reproductive effects.

**Mutagenicity** Data indicates no mutagenic effects.

**Carcinogenicity** Data indicates no carcinogenic effects.

**Acute Toxicity - Oral** LD50 (rat) >5000 mg/kg for imazamox

**Acute Toxicity - Dermal** LD50 (rat) >4000 mg/kg for imazamox

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) >6.3 mg/l for imazamox

**Eye Irritation** The product is an eye irritant.

**Skin Irritation** Not a skin irritant.

**Skin Sensitisation** Product is not a skin sensitiser.

**Other Information** The Australian Acceptable Daily Intake (ADI) for imazamox for a human is 2.8 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 282 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

## 12. ECOLOGICAL INFORMATION

**Other Precautions** Do not contaminate dams, waterways or sewers with this product.

**Acute Toxicity - Fish** The following is data for the active ingredient, imazamox.  
Not toxic to fish. LC50 (96 hr) for rainbow trout is >122 mg/l.  
NOEC (48hr) >122mg/l

**Acute Toxicity - Daphnia**

**Acute Toxicity - Algae** EC50 for raphidocelis subcapitata is 0.037 mg/l for Imazamox

**Acute Toxicity - Other Organisms** Birds: Not toxic to birds. LD50 for bobwhite quail is 1846 mg/kg  
Bees: Not toxic to bees. LD50 >25 µg/bee.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic

# Material Safety Data Sheet

CS: 1.4.21

Page: 4 of 4

Infosafe No™ 3NU59	Issue Date :August 2009	ISSUED by CRPCARE	CS: 1.4.21
--------------------	-------------------------	-------------------	------------

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**Container Disposal**

collections of unwanted chemicals (ChemClear®).  
Do not use this container for any other purpose.  
Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.  
If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill or bury with at least 500 mm of soil cover away from pasture and crop areas, water supplies and houses.  
Empty containers and product should not be burnt.

**14. TRANSPORT INFORMATION****Transport Information Storage and Transport**

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.  
Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**UN Number (Sea Transport)**

For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.  
3077

**IMO Class/Packing Group**

Class 9

**IMO Marine Pollutant**

Marine Pollutant

**IMO Proper Shipping Name**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains Imazamox)**15. REGULATORY INFORMATION****Poisons Schedule**

S5

**Packaging & Labelling**

CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category**

Irritant

**AICS (Australia)**

All of the components in this product are listed on the Australian Inventory of Chemical Substances.

**16. OTHER INFORMATION****Date of preparation or last revision of MSDS**

Revised 27/08/2009

**Contact Person/Point**

Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions Highlighted**

The MSDS was reviewed. Minor changes were made to the information.  
See Section 12 - acute toxicity for Algae;  
See Section 14 - Transport Information.

**Other Information**

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...End Of MSDS...

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