

# Material Safety Data Sheet

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Infosafe No™ 3NU3D Issue Date :November 2009 ISSUED by CRPCARE

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Product Name **MIDAS® Herbicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** MIDAS® Herbicide  
**Product Code** 0610  
**Product Type** Group B I 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 early post-emergence control of certain annual grass and broadleaf weeds as part of the Clearfield® Production System for wheat as specified in the Directions for Use section of the label.  
**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  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R41 Risk of serious damage to eyes.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness and cracking.  
**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
**Other Information** Poisons Schedule S6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	MCPA present as the ethyl hexyl ester	94-74-6	288.5 g/L
	Imazapic	104098-48-8	22 g/L
	Imazapyr	81334-34-1	7.3 g/L
	Hydrocarbon solvent	64742-94-5	312 g/L
	Emulsifiers		Balance

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, 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

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placement of the patient.

**Skin** Wash affected areas thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice immediately.

**Advice to Doctor** Treat symptomatically.  
If vomiting occurs, solvent present may cause pulmonary pneumonitis.

## 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.  
Although material is not flammable, the concentrate is combustible.  
If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly toxic fumes of hydrogen chloride or phosgene.

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

**Emergency Action in case of Fire** If exposed to fire, keep container cool by spraying with water.

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

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).  
Collect spilled material and waste in sealable open-top type containers for disposal.

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

**Clean-up Methods - Large Spillages** Place damaged containers in recovery bins (if available) and return to manufacturer.  
If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or other absorbent.

**Environmental Precautions** This product is a herbicide and spills can damage crops, pastures and desirable vegetation.  
Use earthen bunds or absorbent bunding to prevent spreading of spillage.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage** Store in the closed, original container in a cool, well ventilated area.  
Do not store for prolonged periods in direct sunlight.

**Tank Cleaning** See label for detailed information on cleaning/decontaminating of spray equipment.

**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m<sup>3</sup>; 15ppm TWA, as total hydrocarbon.

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

**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.  
Re-entry Period - Do not allow entry into treated areas for 24 hours after treatment. When prior entry is necessary, wear all protective clothing and chemical resistant gloves.

**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.

**Requirements Concerning Special Training** Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid
<b>Appearance</b>	Pale yellow to brown liquid
<b>Odour</b>	Solvent odour
<b>Solubility in Water</b>	Forms an emulsion in water.
<b>Specific Gravity</b>	1.05
<b>pH Value</b>	6
<b>Vapour Pressure</b>	0.27 mPa (MCPA 2EHE @ 18°C)
<b>Flash Point</b>	108°C (closed cup)
<b>Flammability</b>	Combustible liquid C1.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Inhalation</b>	Breathing vapour can result in headaches, dizziness and possible nausea.
<b>Ingestion</b>	Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination. If aspirated into the lung, e.g. from vomiting, the presence of hydrocarbon solvent may result in chemical pneumonitis or other lung damage.
<b>Skin</b>	Prolonged contact with the concentrate may result in absorption of MCPA 2EHE in harmful amounts. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye</b>	The concentrate may cause irritation after short contact with the eyes, but permanent damage is not anticipated.
<b>Chronic Effects</b>	Regular exposure may result in effects on liver and kidneys.
<b>Acute Toxicity - Oral</b>	LD50 (rat) 2235 mg/kg for MCPA 2EHE LD50 (rat) >5000 mg/kg for imazapyr LD50 (rat) >5000 mg/kg for imazapic
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for MCPA 2EHE LD50 (rat) >2000 mg/kg for imazapyr LD50 (rat) >2000 mg/kg for imazapic
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >3.139 mg/l for MCPA 2EHE LC50 (rat) (4hr) >5.1 mg/l for imazapyr LC50 (rat) (4hr) >4.83 mg/l for imazapic
<b>Eye Irritation</b>	Moderate eye irritant.
<b>Skin Irritation</b>	Mild skin irritant.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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). ADI for imazapyr is 2.5 mg/kg/day, NOEL 250 mg/kg/day. ADI for imazapic is 0.3 mg/kg/day, NOEL 137 mg/kg/day.

## 12. ECOLOGICAL INFORMATION

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<b>Persistence / Degradability</b>	Not readily biodegradable.
<b>Known Harmful Effects on the Environment</b>	The product is a marine pollutant for sea transport.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not spray within 50 m of wetlands or waterways.
<b>Environ. Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	MCPA 2EHE has very low water solubility (0.01mg/l) and rapidly hydrolyses in natural waters. The following data is for the hydrolysis product: MCPA acid LC50 (96hr) for rainbow trout is 50 mg/l for MCPA acid LC50 (96hr) for rainbow trout is >100 mg/l for imazapyr LC50 (96hr) for rainbow trout is >100 mg/l for imazapic
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is >190 mg/l for MCPA acid. LC50 (48hr) for daphnia is >100 mg/l for imazapyr. LC50 (48hr) for daphnia is >100 mg/l for imazapic.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for Pseudokirchneriella subcapitata 0.051 mg/l for imazapic.
<b>Acute Toxicity - Other Organisms</b>	Not toxic to bees. Not toxic to birds.

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	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 collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	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. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## 14. TRANSPORT INFORMATION

<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.
<b>UN Number (Sea Transport)</b>	For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains imazapic)

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## 15. REGULATORY INFORMATION

**Poisons Schedule** S6

**Packaging & Labelling** POISON  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category** Harmful, 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** 12/11/2009

**Contact** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

**Person/Point** After Hours: Shift Supervisor Phone: 1800 033 498

**Revisions** First Issue

**Highlighted**

**Other Information** ® Registered trademark of BASF  
...End Of MSDS...

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