

Infosafe No™ 3NUPH	Issue Date : March 2017	ISSUED by CRPCARE
--------------------	-------------------------	-------------------

 Product Name **Sentry Herbicide**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	Sentry Herbicide
<b>Product Code</b>	0512
<b>Product Type</b>	Group B Herbicide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 17/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Telephone/Fax Number</b>	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	For the pre-emergence control or suppression of certain annual grass and broadleaf weeds in imidazolinone herbicide tolerant barley, wheat (single gene) and canola; and for the early post-emergence control or suppression of certain annual grass and broadleaf weeds in imidazolinone herbicide tolerant canola and wheat (single gene) as specified in the Directions for Use section of the label.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	Causes serious eye damage. Causes skin irritation.
<b>General Precautionary Statement (s)</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	Wear protective gloves, clothing, eye and face protection. Wash hands and exposed skin thoroughly after handling.
<b>Precautionary statement – Response</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Imazapic	104098-48-8	525 g/kg
	Imazapyr	81334-34-1	175 g/kg



# Safety Data Sheet

Infosafe No™ 3NUPH Issue Date : March 2017 ISSUED by CRPCARE

Product Name **Sentry Herbicide**

Classified as hazardous

Ingredients	Name	CAS	Proportion
	Talc	14807-96-6	10-30 %
	Anionic Surfactant		0-10 %

## 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	Rinse mouth and then drink plenty of water. If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and laundry before re-use.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical. Avoid strong water jets - airborne dusts may form a flammable dust cloud.
<b>Hazards from Combustion Products</b>	If involved in a major fire, could evolve oxides of carbon or nitrogen.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus must be worn when fighting a fire in which this product is involved.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable. Dispose of at a landfill in accordance with local regulations.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8. If the possibility of dust generation exists, wear a suitable respirator.
<b>Environmental Precautions</b>	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
<b>Tank Cleaning</b>	Thoroughly flush all spray equipment with water following the use of this product and before use with other products. After using in mixtures with other products, ensure that all spray equipment is additionally cleaned according to recommendations for the tank mix partners before using on sensitive crops.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Talc			2.5		
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.					

Infosafe No™ 3NUPH	Issue Date : March 2017	ISSUED by CRPCARE
--------------------	-------------------------	-------------------

Product Name **Sentry Herbicide**

Classified as hazardous

<b>Respiratory Protection</b>	If dusts are present, wear a class P1 dust mask.
<b>Personal Protective Equipment</b>	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. See label for re-entry period information.
<b>Hygiene Measures</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	Brown granules
<b>Odour</b>	No odour
<b>Solubility in Water</b>	Disperses in water.
<b>Vapour Pressure</b>	<0.01 mPa (imazapic); <0.013 (imazapyr)
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 0.393 (imazapic) ; 0.11 (imazapyr)
<b>Flash Point</b>	>173°C (TOC)
<b>Flammability</b>	Combustible
<b>Other Information</b>	pKa is 2, 3.6, 11 (imazapic, imazapyr) Bulk density is 590 kg/m <sup>3</sup>

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Incompatible Materials</b>	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.
<b>Possibility of 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>Acute Toxicity - Oral</b>	LD50 (rat) >5,000 mg/kg for imazapic LD50 (rat) >5,000 mg/kg for imazapyr
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2,000 mg/kg for imazapic LD50 (rat) >2,000 mg/kg for imazapyr
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >4.38 mg/l for imazapic LC50 (rat) (4hr) >5.1 mg/l for imazapyr
<b>Ingestion</b>	The concentrate is of low toxicity if swallowed.
<b>Inhalation</b>	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.
<b>Skin</b>	Prolonged contact with the concentrate may cause irritation.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Carcinogenicity</b>	Data indicates no carcinogenic effects.
<b>Reproductive Toxicity</b>	Data indicates no reproductive effects.
<b>Chronic Effects</b>	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.



# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 4 of 5

Infosafe No™ 3NUPH Issue Date : March 2017 ISSUED by CRPCARE

Product Name **Sentry Herbicide**

Classified as hazardous

<b>Serious eye damage/irritation</b>	This product is a severe eye irritant.
<b>Mutagenicity</b>	Data indicates no mutagenic effects.
<b>Skin corrosion/irritation</b>	The product is a skin irritant.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for imazapic for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 137 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', March 2014). ADI for imazapyr is 2.5 mg/kg/day, NOEL 250 mg/kg/day.

## 12. Ecological information

<b>Persistence and degradability</b>	Loss from soil is principally by microbial degradation. Not readily biodegradable. Refer to minimum re-cropping interval tables on the label for more information.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environmental Protection</b>	Spray drift can cause damage, read the label for more information.
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for Brachydanio rerio is >100 mg/l for a similar product
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is 127 mg/l for a similar product.
<b>Acute Toxicity - Algae</b>	EC50 (96hr) for Selenastrum capricornutum 3.38 mg/l for a similar product.
<b>Acute Toxicity - Other Organisms</b>	Birds: Not toxic to birds. LD50 for mallard duck and bobwhite quail is >2150 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

## 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 or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Empty containers and product should not be burnt.

## 14. Transport information

<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9
<b>IMO Marine Pollutant</b>	Marine Pollutant



# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NUPH Issue Date : March 2017 ISSUED by CRPCARE

Product Name **Sentry Herbicide**

Classified as hazardous

**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains imazapic)

## 15. Regulatory information

**Regulatory Information** Australia: WHS regulations (2011) - Schedule 11: classification not listed.  
**Poisons Schedule** S5  
**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 67951.

## 16. Other Information

**Date of preparation or last revision of SDS** Revised 16/03/2017.  
This SDS replaces document dated April 2016.  
**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions Highlighted** Minor changes to information in sections 2 and 15.  
...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.