



# Safety Data Sheet

Infosafe No™ 3NUEI      Issue Date : November 2016      ISSUED by CRPCARE

Product Name **FACTOR WG Herbicide**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** FACTOR WG Herbicide

**Product Code** 0494

**Product Type** Group A Herbicide

**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)

**Address** Unit 17/16 Metroplex Avenue Murarrie  
Queensland 4172 Australia

**Telephone/Fax Number** Tel: +61 7 3909 2000  
Fax: +61 7 3909 2010

**Emergency phone number** 1800 033 498 (24hr Australia)

**Recommended use of the chemical and restrictions on use** For the control of certain grasses in a range of broadacre crops as per the Directions for Use table on the label.

**Other Information** 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

**GHS classification of the substance/mixture** TR2 Toxic to Reproduction: Category 2  
OT4 Acute Toxicity - Oral: Category 4  
SC-2 Skin Corrosion/Irritation: Category 2  
ED1 Eye Damage/Irritation: Category 1  
AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

**Signal Word (s)** DANGER

**Hazard Statement (s)** H361 Suspected of damaging fertility or the unborn child.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**General Precautionary Statement (s)** P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

**Precautionary statement - Prevention** P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash hands and exposed skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves, clothing, eye and face protection.

**Precautionary statement - Response** P308+P313 IF exposed or concerned: Get medical advice/attention.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.

**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>
	Butoxydim	138164-12-2	250 g/kg
	Talc	14807-96-6	>60%
	Dispersants		<10%

## 4. First-aid measures

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<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	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. Rinse mouth and then drink plenty of water. Obtain medical advice.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<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>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly sulfur oxides.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus should 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>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<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. If dusts are generated, it is advisable to wear a dust mask, refer Section 8. Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	The manufacturer has recommended the following exposure standard for butoxydim: TLV (TWA) 0.5 mg/m <sup>3</sup> , STEL - mg/m <sup>3</sup> . Safe Work Australia has set the following exposure standard for talc : TLV (TWA) 2.5 mg/m <sup>3</sup> , STEL -.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.
<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,

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<b>Hygiene Measures</b>	elbow-length PVC gloves and goggles. 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.
<b>Requirements Concerning Special Training</b>	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.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Off white granules
<b>Odour</b>	Unpleasant, sickly odour
<b>Melting Point</b>	81°C for butroxydim
<b>Solubility in Water</b>	Disperses in water. Solubility of butroxydim is 6.9 mg/l @ 20°C
<b>Vapour Pressure</b>	0.001 mPa @ 20°C for butroxydim
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 1.9 (pH7 @ 25°C for butroxydim)
<b>Flammability</b>	Non combustibile material.
<b>Other Information</b>	pKa is 4.36

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal conditions. Hydrolyses slowly at pH <7.
<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>	The following data is for the active ingredient, butroxydim. LD50 (rat, female) 3476 mg/kg LD50 (rat, male) 1635 mg/kg
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >2000 mg/kg for butroxydim
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >2.99 mg/l for butroxydim
<b>Ingestion</b>	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
<b>Inhalation</b>	May cause irritation to the respiratory tract.
<b>Skin</b>	Will irritate the skin.
<b>Eye</b>	A severe eye irritant.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Carcinogenicity</b>	The weight of the evidence is that butroxydim is not carcinogenic.
<b>Reproductive Toxicity</b>	At doses toxic to maternal animals, butroxydim has been shown to produce developmental toxicity in a number of species.
<b>Chronic Effects</b>	Chronic exposure can cause damage to the liver.
<b>Mutagenicity</b>	The weight of evidence indicates that butroxydim does not present a mutagenic risk.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for butroxydim for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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: Aust Govt Dept. of Health, Office of Chemical Safety,



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'ADI List', December 2015).

## 12. Ecological information

<b>Persistence and degradability</b>	Average field half life of butroxydim is 9 days.
<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>	The following is data for the active ingredient, butroxydim. LC50 (96hr) for rainbow trout is >6.9 mg/l. LC50 (96hr) for bluegill sunfish is 8.8 mg/l.
<b>Acute Toxicity - Daphnia</b>	LC50 (48hr) for daphnia is >3.7 mg/l for butroxydim.
<b>Acute Toxicity - Algae</b>	EC50 for Selenastrum capricornutum is 0.71 mg/l.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, butroxydim. Birds: Not toxic to birds. LD50 for mallard duck is >2000 mg/kg LD50 for bobwhite quail is 1221 mg/kg Bees: Not toxic to bees. LD50 >200 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>	Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Puncture and bury empty containers in a 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.

## 14. Transport information

<b>Storage and Transport</b>	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
<b>Poisons Schedule</b>	S5
<b>Packaging &amp; Labelling</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Other Information</b>	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 61984.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	Reviewed 04/11/2016 This document replaces document dated April 2013.
<b>Contact Person/Point Revisions Highlighted</b>	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498 The SDS was reviewed to include GHS requirements. ...End Of MSDS...

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