

Infosafe No™ 3NUEI Issue Date : February 2017 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.
Pictogram (s) Corrosion, Health hazard, Exclamation mark, Environment,
 The below pictograms are GHS Hazard symbols for workplace use only.
 See SECTION 14 for Dangerous Goods information.



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



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Chemical Solid

Characterization

Ingredients

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Butroxydim	138164-12-2	250 g/kg
Talc	14807-96-6	>60%
Dispersants		<10%

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 placement of the patient. Rinse mouth and then drink plenty of water. Obtain medical advice.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
Eye contact	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.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly sulfur oxides.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
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. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	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.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a dry, cool well ventilated area out of 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

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

9. Physical and chemical properties

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

10. Stability and reactivity

Chemical Stability	Stable under normal conditions. Hydrolyses slowly at pH <7.
Possibility of 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.
Acute Toxicity - Oral	The following data is for the active ingredient, butroxydim. LD50 (rat, female) 3476 mg/kg LD50 (rat, male) 1635 mg/kg
Acute Toxicity - Dermal	LD50 (rat) >2000 mg/kg for butroxydim
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >2.99 mg/l for butroxydim
Ingestion	Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.
Inhalation	May cause irritation to the respiratory tract.
Skin	Will irritate the skin.
Eye	A severe eye irritant.
Skin Sensitisation	Product is not a skin sensitiser.
Carcinogenicity	The weight of the evidence is that butroxydim is not carcinogenic.



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Reproductive Toxicity	At doses toxic to maternal animals, butroxydim has been shown to produce developmental toxicity in a number of species.
Chronic Effects	Chronic exposure can cause damage to the liver.
Mutagenicity	The weight of evidence indicates that butroxydim does not present a mutagenic risk.
Other Information	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, 'ADI List', December 2015).

12. Ecological information

Persistence and degradability	Average field half life of butroxydim is 9 days.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	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.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is >3.7 mg/l for butroxydim.
Acute Toxicity - Algae	EC50 for Selenastrum capricornutum is 0.71 mg/l.
Acute Toxicity - Other Organisms	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

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 collections of unwanted chemicals (ChemClear®).
Container Disposal	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

Storage and Transport	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.
UN Number (Sea Transport)	For bulk shipments as Class 9, use UN 3077, HazChem code 2Z. UN3077
IMO Class/Packing Group	Class 9, Packing Group III
IMO Marine Pollutant	Marine Pollutant



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IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains Butroxydim)
DG Code - IATA UN 3077
Class 9, Packing Group III
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains Butroxydim)

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: 61984.

16. Other Information

Date of preparation or last revision of SDS Reviewed 10/02/2017
This document replaces document dated November 2016
Contact Person/Point Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted The SDS was reviewed. Various changes were made to the information.
...End Of MSDS...

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