

Section 1 - Identification of the Material and Supplier

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Emergency: 1800 033 111 (24 hours - Australia wide)
Freecall 1800 624 597 (business hours)
www.fmccrop.com.au

Trade Name: Overwatch® Herbicide
APVMA Approval Number: 86427
Product Use: Herbicide
Creation Date: June 2018
This version issued: April, 2020 and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Hazards to the aquatic environment, Acute: Category 1 (H400)
Chronic: Category 1 (H410)

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

SUSMP Classification: Unscheduled
ADG Classification: Non DG
UN Number: Not applicable



GHS Signal word: WARNING

Hazards to the aquatic environment, acute: Category 1 (H400)
Chronic: Category 1 (H410)

HAZARD STATEMENT:

H410: Very toxic to aquatic life with long lasting effects.

PREVENTION

P273: Avoid release to the environment.

RESPONSE

P391: Collect spillage.

STORAGE

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & Colour: White liquid (opaque).

Odour: Faint solvent.

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Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, g/L	TWA (mg/m ³)	STEL (mg/m ³)
Bixlozone	81777-95-1	400	not set	not set
Other non-hazardous ingredients	Secret	to 1 L	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor.

Inhalation: If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

Skin Contact: Wash with water and soap. See physician if any symptom develops.

Eye Contact: Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. Get medical attention if irritation persists.

Ingestion: Let the exposed person rinse mouth and drink several glasses of water or milk, but do not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor..

Section 5 - Fire Fighting Measures

Extinguishing media: Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.

Special hazards arising from the substance or mixture: The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide and various chlorinated organic compounds.

Advice for firefighters: Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance. Firemen should wear self-contained breathing apparatus and protective clothing.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include rubber, PVC, butyl rubber. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

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Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Avoid contact with eyes, skin or clothing. Avoid breathing vapour or spray mist. Wash thoroughly with water and soap after handling. Remove contaminated clothing immediately and wash before reuse. Do not discharge to the environment. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

Storage: The product is stable under normal conditions of warehouse storage.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

Ventilation: The product does not automatically present an airborne exposure concern when handled carefully, but in the event of a discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.

Eye Protection: None specified.

Skin Protection: None specified.

Section 9 - Physical and Chemical Properties:

Information on physical and chemical properties

Appearance	White liquid (opaque)
Odour	Faint solvent
Odour threshold	Not determined
pH	Approx. 7
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	> 61°C
Evaporation rate	Not determined
Flammability (solid/gas)	Not applicable (liquid)

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Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.10 at 22°C
Solubility(ies)	Solubility of active ingredient in water: 39.5 ppm
Partition coefficient n-octanol/water	
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties.....	Not explosive
Oxidising properties	Not oxidising
Other information	
Miscibility	The product is dispersible in water.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: strong acids, strong bases, strong oxidising agents.

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: Polymerisation reactions are unlikely; they are not expected to occur.

Section 11 - Toxicological Information

Acute toxicity	The product is not considered as harmful by single exposures*
Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 2000 mg/kg
- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg
- inhalation	LC ₅₀ , inhalation, rat: > 5 mg/L/4 h
Skin corrosion/irritation	Product is not classified as skin irritant
Serious eye damage/irritation	Product is not classified as eye irritant
Respiratory or skin sensitisation ...	Product is not classified as skin sensitiser
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic.
Carcinogenicity	The product contains no ingredients known to be carcinogenic.
Reproductive toxicity	The product contains no ingredients known to have adverse effects on reproduction
Aspiration hazard	The product does not present an aspiration pneumonia hazard
Symptoms and effects, acute and delayed	Unknown.
Bixlozone Technical	
Toxicokinetics, metabolism and distribution	Based on comparison to a similar substance it is expected that BIXLOZONE will be rapidly absorbed and excreted,

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		will be widely distributed in the body and almost completely metabolised. Bioaccumulation is not expected.
Acute toxicity		The substance may be harmful by inhalation. The acute toxicity is measured as:
Route(s) of entry	- ingestion	LD ₅₀ , oral, rat: > 2000 mg/kg
	- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg
	- inhalation	LC ₅₀ , inhalation, rat: > 2.11 mg/L/4 h (maximum attainable concentration)
Skin corrosion/irritation		The substance is not classified as skin irritant
Serious eye damage/irritation		The substance is not classified as eye irritant
Respiratory or skin sensitisation		The substance is not classified as skin sensitiser

Classification of Hazardous Ingredients

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: Available data indicates that this product is not irritating to eyes.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

Toxicity The product is a herbicide and therefore expected to be toxic to all plants.

The following has been measured on active ingredient in this product or similar formulation:

Fish	Rainbow trout	96-h LC ₅₀ : > 45 mg/L
	(<i>Salmo gairdneri</i>)	57-day NOEC: 2.29 mg/L
	Bluegill sunfish	96-h LC ₅₀ : 34 mg/L
	(<i>Lepomis macrochirus</i>)	
Invertebrates	Daphnids	48-h EC ₅₀ : 40.8 mg/L
	(<i>Daphnia magna</i>)	21-day NOEC: 2.2 mg/L

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48-h EC₅₀: 61 mg BIXLOZONE SC/L
LC₅₀: 9.8 mg/L

Mysid shrimp
(*Mysidopsis bahia*)

72-h EC₅₀: 2.0 mg/L

120-h EC₅₀: 0.136 mg/L

Algae Green algae
(*Selenastrum capricornutum*)
Diatoms
(*Navicula pelliculosa*)

7-day EC₅₀: 13.9 mg/L

7-day EC₅₀: 15 mg Overwatch™ Herbicide/L

Plants Duckweed
(*Lemna gibba*)

LC₅₀: 156 mg/kg soil

14-day LC₅₀: 654.76 mg Overwatch™
Herbicide /kg soil dw

Earthworms *Eisenia fetida*

LD₅₀: > 2510 mg/kg

Dietary LC₅₀: > 5620 ppm

Dietary LD₅₀: > 2000 mg Overwatch™
Herbicide/kg bw

Birds Mallard duck
(*Anas platyrhynchos*)
Northern bobwhite

Persistence and degradability Not expected to be readily biodegradable.

Bioaccumulative potential See section 9 for octanol-water partition coefficient.
Bioaccumulation is not expected

Mobility in soil The active ingredient is expected to be of moderate mobility in soil.

Results of PBT and vPvB assessment None of the ingredients meets the criteria for being PBT or vPvB.

Other adverse effects Other relevant hazardous effects in the environment are not known.

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 www.chemclear.com.au/ and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

APVMA Approval Number: 86427

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

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Issued by: FMC Australasia Pty Ltd

Emergency: 1800 033 111 (24 hours - Australia wide)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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