

SAFETY DATA SHEET

METAFOL® SC

Date of Issue: 9 April 2019

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Metafol SC Recommended use: Selective herbicide

Supplier:

Etec Crop Solutions, an Arysta LifeScience Group Company. PO Box 51584 Pakuranga, Auckland Phone 0800 100 325

Emergency telephone number:

0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:	6.1B – acute toxicant 6.3B - skin irritant 6.9B - target organ toxicant 9.1A - aquatic toxicant 9.2A - soil toxicant 9.3C - terrestrial vertebrate toxicant
Required identification Details:	DANGER May be fatal if swallowed, inhaled or absorbed through the skin. May cause skin irritation. May cause target organ damage from repeated oral exposure at high doses. Very toxic to aquatic organisms with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates.
	For the protection of aquatic organisms a buffer zone (in all directions) of greater than 4 metres must be observed from water bodies. Selective herbicide - very toxic to some plant species. For the protection of non-target plants a 15 metre buffer zone from downwind non-target vegetation is recommended. Where threatened non-target plants are present in areas adjacent to the application area, extra care should be taken not to impact these plants. Local conditions may require the

user to take into account site specific conditions on the day of application and amend the size of the buffer zone as necessary.

> % 700 g/L

up to 100

This product must not be applied into or onto water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:	Liquid
Common name Metamitron Other non-hazardous ingredients	CAS No 41394-05-2

4. FIRST-AID MEASURES

Description of necessary first aid measures:

<u>First-aid measures</u> Inhalation:	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention. Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance. If a large area is affected seek medical assistance.
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Notes to a physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES	
HAZCHEM Code:	2Z
Extinguishing media:	Water fog, foam, carbon dioxide or dry chemical.
Hazardous thermal (de)composition products:	Nitrogen oxides, carbon dioxide or carbon monoxide gases may form.

Protection of fire-fighters:	When handling wear eye protection, waterproof gloves, boots, hat and trousers. Do not allow contaminated run-off to
Specific methods:	enter drains. Keep up wind. Do not allow washings to reach sewage or effluent systems.
Other Information:	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions:	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental precautions:	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.
Spills and Disposal:	Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
7. HANDLING AND STORAGE	
Safe Handling:	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must only be applied by approved handler. At all other times it must be under the personal control of an approved handler or secured. TRACKING: Location and movement of this product must be recorded at each stage of its life cycle. RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. When using do not eat, drink or smoke. The maximum application rate of this substance is 6.0L of Metafol 700SC/ha (4200g of metamitron/ha). The maximum application frequency is once per calendar year. Application is limited to ground based low boom application using coarse to medium sized droplets. Smaller sized droplets or other application methods are not permitted. RE-ENTRY: If re-entry work is required within 24 hours of application, personal protective equipment must be worn. Public access must not occur during this period.
Conditions for safe storage, including any incompatibilities:	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of METAFOL®SC require secondary containment and are subject to signage, and more than 100L require emergency response plans.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines Occupational exposure limits:	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Engineering measures Appropriate engineering controls:	Use in a well ventilated area only. Local exhaust ventilation
Appropriate engineering controls.	may be required in confined spaces.
<u>Personal Protective Equipment</u>	
Detail specifications for equipment:	When handling wear eye protection, waterproof gloves, boots, hat and trousers.
	Gloves must be worn when entering an area that has had this substance
General hygiene:	Do not eat, drink or smoke while using.
	Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour: Odour:	Liquid White liquid.
Volatile Component: Specific Gravity: Vapour Pressure:	1.2
Density: Oxidising Properties Solubility in water:	Non oxidising
Partition Coefficient: n-octanol/water: pH: Flashpoint: Explosion Properties	6.5 (1% in water) >93°C There is no risk of an explosion from this product under
Flammable Limits: Other Information:	normal circumstances if it is involved in a fire Non-Flammable. (SC) Suspension Concentrate

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling and storage.
Conditions to avoid:	Strong acids/alkalis, Oxidising agents. Protect this product from light.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral: LD50(ra	t) = 2000 mg/kg for METAFOL SC.
Acute toxicity - Dermal: LD50(ra	t) = >2000 mg/kg for METAFOL SC.
Acute toxicity – Inhalation: LC50(4h	r)for rats >0.33 mg/L air for metamitron.
Skin: May cau	se skin irritation.
Skin Sensitisation: Not a sk	in sensitiser.

Issued by Etec Crop Solutions, an Arysta LifeScience Company Page 4 of 6 (SDS ES512) Product: Metafol SC May cause target organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFO	RMATION
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Bioaccumulation Potential:	Metamitron is not bioaccumulative.
Acute Toxicity – Fish:	LC50(96h) = 443 mg/L for metamitron.
Acute Toxicity – Daphnia:	LC50 (48h) = 101 mg/L for metamitron.
Acute Toxicity – Algae:	EC50 (72h) = $0.22mg/L$ for metamitron. LC50 (48h) = 101 mg/L for metamitron.

Other Information: The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in the substance leaching into ground water. Do not apply when heavy rainfall is expected.

13.	DISPOSAL	CONSIDERATIONS

Product disposal :	Dispose of product only by using according to the label, or at an approved landfill.
Container disposal:	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION - International transport regulations

	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN number:	2902
Transport hazard class:	6.1
Hazchem Code:	2Z
Packing Group:	II
Marine Pollutant:	Yes
Proper shipping name:	PESTICIDE, LIQUID, TOXIC, N.O.S (metamitron, 70%)
IERG Number :	34
IMO Marine Pollutant:	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS:	F-A, S-F
Other Information:	Do not carry this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. REGULATORY INFORMATION

ACVM Registered Number:	Registered pursuant to the ACVM Act 1997, No. P9245 See www.foodsafety.govt.nz for registration conditions.
HSNO Approval Code:	Approved pursuant to the HSNO Act 1996, Approval Code HSR101186.
Packaging & Labelling: Hazard Rating Systems:	See www.epa.govt.nz for approval controls. DANGER - Keep out of reach of children NFPA/HMIS: 2-2-1

16. OTHER INFORMATION

Additional information:	Original Issue Date: 09/04/19
Contact Person/Point:	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE. 24Hr Tollfree Emergency No: 0800 651 911. 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766 Recommended use of the chemical updated to include pre and post emergence use.

EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.