

Infosafe No™ 3NUX0	Issue Date : October 2016	ISSUED by NUFARMNZ
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 Product Name **METAFOL®SC**

## 1. Identification

<b>GHS Product Identifier</b>	METAFOL®SC
<b>Product Code</b>	00488
<b>Product Type</b>	Selective herbicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270-4159
<b>Emergency phone number</b>	0800 651 911
<b>Recommended use of the chemical and restrictions on use</b>	Selective herbicide for controlling annual weeds in fodder beets, sugar beets and red beets.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. Hazard Identification

<b>Other Information</b>	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. <b>TOXICITY</b> Toxic- may be fatal if swallowed, inhaled or absorbed through the skin. Harmful- may cause skin irritation. May cause target organ damage from repeated oral exposure at high doses. <b>ECOTOXIC</b> Very toxic to aquatic organisms with long lasting effects. For the protection of aquatic organisms a buffer zone (in all directions) of greater than 4 meters 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. Harmful to terrestrial vertebrates. This product must not be applied into or onto water.
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## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Metamitron	41394-05-2	700 g/L
	Other non-hazardous ingredients		upto 100

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.

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<b>Skin</b>	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.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<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>	Nitrogen oxides, carbon dioxide or carbon monoxide gases may form.
<b>Special Protective Equipment for fire fighters</b>	When handling wear eye protection, waterproof gloves, boots, hat and trousers.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Hazchem Code</b>	2Z
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers. 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 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 it's 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.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

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Aggregate Storage Volume Thresholds:  
When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate engineering controls</b>	Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.
<b>Personal Protective Equipment</b>	When handling wear eye protection, waterproof gloves, boots, hat and trousers. Gloves must be worn when entering an area that has had this substance applied to it in the last 24 hours.
<b>Hygiene Measures</b>	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

<b>Form</b>	Liquid
<b>Appearance</b>	White liquid.
<b>Specific Gravity</b>	1.2
<b>pH</b>	6.5 (1% in water)
<b>Flash Point</b>	>76°C
<b>Flammability</b>	Non-Flammable.
<b>Explosion Properties</b>	There is no risk of an explosion from this product under normal circumstances if it is involved in a fire
<b>Oxidising Properties</b>	Not oxidising
<b>Other Information</b>	(SC) Suspension Concentrate

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) = 2000 mg/kg for METAFOL SC.
<b>Acute Toxicity - Dermal</b>	LD50 (rat) = >2000mg/kg for METAFOL SC.
<b>Acute Toxicity - Inhalation</b>	LC50 (4hr) for rats >0.33 mg/L air for metamitron.
<b>Skin</b>	May cause skin irritation.
<b>Skin Sensitisation</b>	Not a skin sensitiser.
<b>Chronic Effects</b>	May cause target organ damage from repeated oral exposure at high doses.

## 12. Ecological information

<b>Bioaccumulative Potential</b>	Metamitron is not bioaccumulative.
<b>Acute Toxicity - Fish</b>	LC50 (96h) = 443mg/L for metamitron.
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) = 101 mg/L for metamitron.
<b>Acute Toxicity - Algae</b>	EC50 (72h) = 0.22mg/L for metamitron.
<b>Other Information</b>	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

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

## 14. Transport information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	2902
<b>UN proper shipping name</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. - (metamitron, 70%)
<b>Transport hazard class(es)</b>	6.1
<b>Hazchem Code</b>	2Z
<b>Packaging Method</b>	-
<b>Packing Group</b>	II
<b>EPG Number</b>	-
<b>IERG Number</b>	34
<b>IMO Marine Pollutant</b>	Yes. Environmentally Hazardous Substance mark required.
<b>IMDG EMS</b>	F-A, S-F
<b>Other Information</b>	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

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P9245 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101186 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging &amp; Labelling</b>	TOXIC * ECOTOXIC - keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 2-2-1

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	October 2016
<b>Contact Person/Point</b>	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
<b>Revisions Highlighted</b>	First Issue  ...End Of MSDS...

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