

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: Metriphar 48SC

Product Use: Herbicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023 v2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR000533

Pictograms







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates

Product Name: Metriphar 48SC SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 21 March 2023 Tel: 64 9 475 5240 www.techcomp.co.nz

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
P301 + P312	unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Metribuzin	48	21087-64-9
Other ingredients determined not to be	To bal	
hazardous		

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin Wash with soap and water. Get medical attention if irritation or rash

develops. Cold water may be used.

If Swallowed If swallowed and feeling unwell, call a physician immediately. Rinse

mouth do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. For further advice, contact the National Poisons Centre on 0800 POISON (0800

764766) immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position

and keep warm. Keep at rest until fully recovered. Apply artificial

respiration if not breathing. Call a POISON CENTRE or a doctor

immediately.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed. **Inhalation:** Not applicable.

Skin: Causes mild skin irritation. May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Chronic: May causes damage to organs through single or repeated or prolonged

exposure.

Treatment: Treatment: No known specific antidote. Treat symptomatically

(decontamination, vital functions).

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from products	Carbon oxides (CO, CO2) nitrogen oxides (NO, NO2) sulphur
	oxides (SO2, SO3)
Suitable Extinguishing	SMALL FIRE: Use DRY chemical powder.
media	LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Recommended	Fire fighters should wear positive pressure self-contained
protective clothing &	breathing apparatus (SCBA) and full turnout gear. Be sure to use
Precautions for	an approved/certified respirator or equivalent.
firefighters	
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing. Refer to section 8. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

Spill and Disposal procedures:

Poisonous liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. Dispose of waste safely, according to local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- · Read carefully and follow all instructions.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Keep away from temperature extremes.
- Do not ingest.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Keep away from children.
- Store locked up.

- Keep container tightly closed.
- Keep container in a cool, well-ventilated area.
- Store only in original container.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m³	STEL ppm	mg/m³
Metribuzin [21087-64-9]	_	5	_	_

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls / Industrial Hygiene

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection Equipment



Eyes	Chemical goggles or face shield where splash may occur.	
Hands	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).	
Skin	When handling wear waterproof gloves, lab coat, overalls and boots.	
Respiratory	Not normally required. Exceptions: in the case of fire or during the	
	formation of mists or aerosols.	
General	Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream	
	is useful to give additional skin protection.	

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White to off-white
Odour	Characteristic
Odour Threshold	Not available
pH	6.5 - 8.5
Melting Point/Boiling Point	Metribuzin: ≤ 126°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	Metribuzin: 1.26 g/cm3 at 20°C
Water Solubility	Soluble in water, acetone.
	Soluble in methanol.
Partition Coefficient:	Not available

Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable for 2 years when stored under	
	normal conditions.	
Possibility of hazardous reactions	None known.	
Conditions to Avoid	Heat, moisture and light.	
Incompatible Materials	Strong alkalis. May react with oxidising agents,	
_	ketones and aldehydes.	
Hazardous Decomposition	Carbon oxides (CO, CO2) nitrogen oxides (NO,	
Products	NO2) sulphur oxides (SO2, SO3).	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Acute oral toxicity (LD50): > 300 mg/kg [Rat].
Dermal	Not applicable. LD50 > 20,000 mg/kg (rat)
Inhalation	Not applicable.
Eye	Not applicable.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	ive Toxicity Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated exposure.	

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Metribuzin (21087-64-9)	245mg/kg (Guinea Pig)	-	-

Section 12. Ecotoxicological Information

Ecological effects	Very toxic to aquatic life with long lasting effects.	
information	Hazardous to soil organisms.	
	Hazardous to terrestrial vertebrates.	
Persistence and	No data available	
degradability		
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity:	LC50 (96h) 74.6 mg/ ℓ rainbow trout, 141.6 mg/ ℓ golden orf, 85	
	mg/l sheepshead minnows	
Toxicity for daphnia:	LC50 (48h) 49.6 mg/l.	
Toxicity to algae:	ErC50 0.021 mg/l Scenedesmus subspicatus	
Acute bird toxicity:	Oral LD50 164 mg/kg bobwhite quail, <400 mg/kg mallard	
	ducks.	
Acute bee toxicity	No toxic to bees.	
Toxicity for worms:	LC50 331.8 mg/kg dry soil Eisenia foetida.	
Precautions:	Do not allow to enter waterways.	

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID	
	(METRIBUZIN), N.O.S	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L, it can be	
Limited Quantities	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000533

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	100L	
Emergency Response Plan (Schedule 5)	100L	
Secondary Containment (Schedule 5)	100L	
Tracking (Schedule 26)	Not required	
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls	
	document - HSR000533	
HSNO Additional Controls (Restrictions of use)		
77A	The substance must not be applied onto or	
	into water.	
ACVM Act and Regulations		
ACVM Approval No	P5582	

See <u>www.foodsafety.govt.nz</u> for registration controls

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Adria, if further information is required.

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