

METRIX 480SC™
MATERIAL SAFETY DATA SHEET

SECTION 1 Chemical product and Company identification

Product Name: Metrix 480SC™ (Metribuzin)

Chemical name: 4-Amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5 (4H)-one

Formula: C₈H₁₄N₄OS

Herbicide Family: Triazinone

Product Use: Commercial Herbicide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015

6229 EE Maastricht The Netherlands

www.sineria.com

SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>Content (%)</u>	<u>CAS RN</u>
Metribuzin	48%	21087-64-9

SECTION 3 Hazards Identification

- The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Acute Health effects: Slightly to moderately toxic to humans by oral, skin or inhalation routes of exposure. Sedation and labored breathing were observed in poisoned rats. Deaths occurred within 24 hours, while survivors recovered slowly without permanent effects.

Effects of short-term exposure: Exposure at high levels may result in depression of the central nervous system.

Chronic: No ill effects were observed in dogs fed dietary doses of 12.5 mg/kg/day for 3 months. No effects were apparent in rats receiving 2.5 mg/kg/day over 3 months, but doses of 25 and 75 mg/kg/day caused enlarged livers and thyroid glands.

SECTION 4 First Aid Measures

Ingestion: If ingestion is suspected, call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15ml) of syrup of ipecac followed by 1 to 2 glasses of



water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

Eye Contact: Hold eyelids open and flush with copious amounts of water for 15 minutes. Call a physician if irritation persists or develops after flushing.

Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists. If signs of intoxication (poisoning) occur, get medical attention immediately.

Inhalation: If a person is overcome by excessive exposure to aerosols of this material, remove to fresh air or uncontaminated area. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention as soon as possible.

Notes to Physician: No specific antidote is available. Treat poison victims symptomatically.

SECTION 5 Fire Fighting Measures

Suitable extinguish media: Dry chemical, water

Fire fighting instructions: As in any fire, wear self-contained breathing apparatus pressure-demand and full protection gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Avoid breathing vapors.

SECTION 6 Accidental release measures

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

Land spill or leaks: Isolate area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing vapors and skin contact. Remove sources of ignition if combustible or flammable vapors may be present and ventilate area. Use recommended protective equipment to dike contaminated area with absorbent granules, soil, sand, etc. If large spill, material should be recovered. Small spills can be absorbed with absorbent granules, spill control pads, or any absorbent materials. Carefully sweep up absorbed spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with alcohol and caustic solution and/or detergent and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7 Handling and storage

Handling: Avoid contact with eyes or clothing. Do not use near heat or open fire.

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
Remove



personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store in a cool, well ventilated and dry place out of reach of children. Keep product in the original container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Special sensitivity: Heat, moisture

SECTION 8 Exposure controls/Personal protection

Exposure standards: The exposure limit for product is 5 mg/m³ (as TWA)

Personal protection

- *Eye protection requirements:* Goggles or face shield should be used when needed to prevent liquid or spray mixture from getting into eyes.
- *Skin protection requirements:* Avoid skin contact. Use chemical-resistant gloves to prevent dermal exposure.
- *Respirator requirements:* Under normal handling conditions no respiratory protection is needed. However, if needed to prevent respiratory irritation, a respirator approved by NIOSH for dusts and mists or for pesticides may be used.
- *Ventilation requirements:* Maintain exposure levels below the applicable exposure limit through the use of general and local exhaust ventilation.

Additional protective measures: Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing separately after use. Wash thoroughly after handling.

SECTION 9 Physical & Chemical properties

Appearance: White liquid

Odour: Musty

Molecular weight: 214.3

Decomposition temperature: 126.5°C

Vapour Pressure: 0.058mPa (i.a.) @ 20°C

Evaporation Rate: Not Available

SECTION 10 Stability & Reactivity

Stability: Stable under normal condition

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Hazardous Polymerization: Will not occur

Incompatibilities: None noted

Instability conditions: Sustained temperatures above 38°C, highly alkaline conditions for extended periods of time. It may react with ketones and aldehydes.

Hazardous Decomposition Products: Proposed products include: CO₂, SO₂, amines.

SECTION 11 Toxicological Information

Acute Toxicity /Irritation Studies

Ingestion: Acute oral (Rat) LD₅₀ >1500mg/kg body-weight

Dermal: Acute dermal LD₅₀ (Rabbit) >2000 mg/kg body-weight

Inhalation: Acute inhalation (Rat, 4hr) LC₅₀ >1.92mg/lt

Eye Contact: Slightly Irritating (Rabbit)

Skin Contact: Non irritating (Rabbit)

Skin Sensitization: Not a sensitizer (Guinea Pig)

Chronic Toxicity Studies

Carcinogenicity: Not found

Mutagenicity: Not found

Reproduction: Not found

SECTION 12 Ecological Information

- Metribuzin is moderately toxic to birds on an acute oral basis and it is slightly to non-toxic to upland birds when it is given in the diet; slightly toxic to fish and not toxic to bees.

Birds:

- Acute oral LD₅₀ for mallard ducks 460-680 mg/kg.
- Five-day dietary LC₅₀ for mallard ducks > 4000 mg/kg diet.

Fish: LC₅₀ (96 h) for carp > 60ppm

Bees: LD₅₀ 35µg/bee

SECTION 13 Disposal Considerations

Do not contaminate water, food, or feed by disposal. Empty containers should be triple rinsed into the spray tank during operation. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary

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landfill or incinerating, or if allowed, by burning. If burned, stay out of smoke.

SECTION 14 Transport Information

DOT/IATA/IMO

UN No.: 2998

UN Hazard Class: 6.1

SECTION 15 Regulatory Information

R-phrase:

R-22: Harmful if swallowed.

S-phrase:

S-2: Keep out of the reach of children.

SECTION 16 Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

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