



# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022

Date Updated: February 09, 2022

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

Product Name Metribuzin  
 Product Code(s) M706300  
 Recommended Use For Laboratory Research Use Only  
 Not for Human or Animal Drug Use

Supplier Bio Basic Inc.  
 Address 20 Konrad Crescent, Markham, Ontario,  
 Canada, L3R 8T4  
 Telephone (905) 474 4493  
 Fax (905) 474 5794  
 For Chemical Emergency Phone# (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute toxicity, Oral (Category 4), H302  
 Short-term (acute) aquatic hazard (Category 1), H400 Long-term  
 (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS Label elements, including precautionary statements

Pictogram



Signal word Warning  
 Hazard statement(s)  
 H302 Harmful if swallowed.  
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel  
 unwell. Rinse mouth.  
 P391 Collect spillage.  
 P501 Dispose of contents/ container to an approved waste disposal  
 plant.

### Hazards not otherwise classified (HNOC) or not covered by GHS

- none

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	CAS-No	Weight %
Metribuzin	244-209-7	21087-64-9	<100

#### **SECTION 4. ----- FIRST-AID MEASURES-----**

##### **General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Flush eyes with water as a precaution.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

##### **Indication of any immediate medical attention and special treatment needed**

No data available

#### **SECTION 5. ----- FIRE FIGHTING MEASURES -----**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides  
Combustible.

##### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

##### **Further information**

No data available

#### **SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

##### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

##### **Reference to other sections**

For disposal see section 13.

#### **SECTION 7. ----- HANDLING AND STORAGE-----**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Store under argon.

Storage class (TRGS 510): 11: Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

**SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - -****Control parameters****Ingredients with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
Metribuzin	21087-64-9	TWAEV	5 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	5 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	5 mg/m <sup>3</sup>	Canada. British Columbia OEL
		TWA	5 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

**Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

### Information on basic physical and chemical properties

- |  |   |
|--|---|
| a) Appearance  | Form: solid                             |
| b) Odor  | No data available                       |
| c) Odor Threshold                                    | No data available                       |
| d) pH  | No data available                       |
| e) Melting point/freezing point                      | Melting point: 126.2 °C (259.2 °F)      |
| f) Initial boiling point and boiling range           | 132 °C 270 °F at 0.0266 hPa             |
| g) Flash point                                       | ( )No data available                    |
| h) Evaporation rate                                  | No data available                       |
| i) Flammability (solid, gas)                         | No data available                       |
| j) Upper/lower flammability or explosive limits      | No data available                       |
| k) Vapor pressure                                    | No data available                       |
| l) Vapor density                                     | No data available                       |
| m) Relative density                                  | 1.28 g/cm <sup>3</sup> at 20 °C (68 °F) |
| n) Water solubility                                  | No data available                       |
| o) Partition coefficient: log Pow: 5 n-octanol/water |   |
| p) Autoignition temperature                          | No data available                       |
| q) Decomposition temperature                         | No data available                       |
| r) Viscosity   | No data available                       |
| s) Explosive properties                              | No data available                       |
| t) Oxidizing properties                              | No data available                       |

### Other safety information

No data available

## SECTION 10. ----- STABILITY AND REACTIVITY -----

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

In the event of fire: see section 5

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----****Acute toxicity**

LD50 Oral - Rat - 1,100 mg/kg

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: XZ2990000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. ----- ECOLOGICAL INFORMATION -----

### Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 42 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 4.18 mg/l - 48 h
Toxicity to algae	Growth inhibition LOEC - Pseudokirchneriella subcapitata - 0.038 mg/l - 96 h

### Persistence and degradability

No data available

### Bioaccumulative potential

Bioaccumulation Leuciscus idus (Golden orfe) - 3 d  
- 54 µg/l(Metribuzin)

Bioconcentration factor (BCF): < 20

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. No data available

## SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14. ----- TRANSPORT INFORMATION -----

### DOT (US)

Not dangerous goods

### IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin)

Marine pollutant : yes

### IATA

UN number: 3077 Class: 9 Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Metribuzin)

### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION-----**

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**Issuing Date:** 09-Feb-2022

**End of SDS**