AGROW ALLIED
Ventures Pvt. Ltd

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	:	Metribuzin Technical
Chemical Name	:	4-amino-6-tert-butyl-3-methylsulfanyl-1,2,4-triazin-5-one
Type	:	Herbicide
Molecular formula	:	$C_{17}H_{13}ClFNO_4$
Manufacturer	:	Agrow Allied Ventures Pvt. Ltd.
		701-704, Enkay Tower, Gurugram, India
Telephone	:	+124 4600414

2. Composition/Information on ingredients

Chemical Name	CAS#	Percent or content(w/w)
Metribuzin Tech	21087-64-9	97.00 %
Water	7732-18-5	3.00 %
Total	-	100.00 %

3. Health Hazards Identification

Signal word: WARNING

Hazard Statement

Harmful if swallowed

Harmful in contact with skin

Fatal if inhaled

Precautionary Statement

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Wear respiratory protection

4. First Aid Measures

Eye Contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a poison control center or doctor for treatment advice.

Skin Contact Take off contaminated clothing.
Rinse skin immediately with plenty of water for 15-20 minutes.
Call poison control center or doctor for treatment advice.

Inhalation If breathing is irregular or stopped, administer artificial respiration
May cause allergic respiratory reaction
Call a physician or poison control center immediately

Ingestion Call a physician or poison control center immediately
May produce an allergic reaction
Never give anything by mouth to an unconscious person
Do not induce vomiting unless told to do so by a poison control center or doctor

5. Fire Fighting Measures

Flammable Explosive Properties

Extinguishing Media

Dry chemical, Water.

Fire/Explosion Hazard

Dust clouds generated during handling. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables.

Hazardous Combustion Products

Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables. As with any dry material, pouring this material or allowing it to free fall or be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or any flammable materials which may come into contact with the material or its container. Check that all equipment is properly grounded and installed to satisfy electrical classification requirements, Carbon dioxide (CO2), Sulfur oxides, Methyl mercaptan, Amines.

6. Accidental Release Measures

Personal precautions Avoid contact with the skin and the eyes.

Environmental Precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods for Clean-up Sweep up and shovel into suitable containers for disposal

7. Handling and Storage

Handling

Keep out of reach of children. Provide adequate ventilation. Fine dust dispersed in air may ignite.

Storage

Store in cool/well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protective Equipment

Eye/face Protection Eye contact should be avoided through the use of chemical safety glasses, goggles, or a face shield selected in regard to exposure potential.

Skin Protection Wear protective gloves/clothing. Socks and footwear.

Respiratory Protection Where airborne exposure is likely, use respiratory protection equipment appropriate to the material and/or its components. Full face piece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Appearance	White
Odor	Weak characteristic
Physical State	Solid
Melting point	126°C
Solubility	1.05g/l @ 20°C

Vapor pressure 0.058 mPa @ 20°C

10. Stability and Reactivity

Stability	Stable under normal conditions
Conditions to Avoid	Sustained temperatures above 100 F
Incompatible Materials	ketones aldehydes
Hazardous Decomposition Products	Carbon dioxide (CO2) Oxides of sulfur Amines Methyl mercaptans
Possibility of Hazardous Polymerization	None under normal processing

11. Toxicological Information

Acute Toxicity

Acute oral: LD50 rat =>300-2000 mg/kg

Acute dermal: LD50 rabbit = >1000 mg/kg

Acute Inhalation: LC50 rat = >2.51 mg/l

Eye Irritation rabbit: Mild Irritant

Skin Irritation rabbit: Slight Irritant

Skin sensitization Guinea pig: Non sensitizer

12. Ecological Information

Birds oral LD50

Bobwhite quail = 164, Mallard ducks = 460-680 mg/kg

Fish LC50

Rainbow trout = 74.6, Golden orfe 141.6, Sheepshead minnows 85 mg/l

Daphnia LC50 (48h) 49.6 mg/l

Algae EC50 = 0.021 mg/l

Bees LD50 = 35µg/bee

13. Disposal Considerations

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions.

Contaminated Packaging Non refillable container. Do not reuse this container. (For plastic containers).Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. The offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. (For paper bags). Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

14. Transport Information

Product Name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Metribuzin technical)
UN No.	:	3077
UN Hazard Class	:	9
UN Packing Group	:	III
Marine Pollutant status	:	YES
EMS	:	F-A, S-F

15. Regulatory Information

CERCLA Ratings : Health = 2, Fire = 3
Reactivity = 0, Persistence = 2

Toxicity Class	: WHO II; EPA II
EC risk	R20/21/22; R 36; R 43

16. Other Information

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation or guarantee except the quality of product.

PREPARED BY: Agrow Allied Ventures Pvt. Ltd., SAFETY DIVISION

Date: May 2021