SHANGHAI BOSMAN INDUSTRIAL CO., LTD.
Add: Room 1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.
Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com
Website: www.bosmanagrochem.net

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MATERIAL SAFETY DATA SHEET OF

METRIBUZIN 75% WG

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

Product name: Metribuzin 75% WG

Recommended use: Herbicide

Formulation: Water dispersible granule (WG)

2. HAZARDS INDENTIFICATION

Likely routes of exposure:

Skin contact, ingestion and inhalation.

Skin: May cause mild irritation. May cause mild sensitization to some individuals.

Eye contact: Mild to moderate eye irritant.

Ingestion: Minimally toxic. Harmful if swallowed.

Inhalation: Minimally toxic. Harmful if inhaled.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO.	PROPORTION(%, w/w)
Metribuzin	21087–64–9	75% min.
Other ingredients	--	Up to 100%

4. FIRST AID MEASURES

Inhalation:

Remove source of contamination, or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. If breathing is difficult, a qualified person should administer oxygen. Get medical attention immediately if effects persist.

Skin contact:

Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with cold water and non-abrasive soap. Do not rub the skin. If irritation persists, obtain medical attention.

Eye contact:

Immediately flush the eyes with clean, gently flowing cold water for 20 minutes, holding the eyelid(s) open. If irritation persists, obtain medical attention.

Ingestion:

Have victim rinse mouth thoroughly with water. Do not induce vomiting. Seek medical advice immediately, showing container and label.

Advice to physician:

There is no specific antidote. Treat symptomatically and supportively as and when required. Gastric lavage could be considered . Give oxygen if respiration is depressed.

5. FIRE FIGHTING MEASURES

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

Extinguishing media which should not be used for safety reasons High volume water jet

Specific hazards during firefighting In the event of fire the following may be released: Carbon monoxide (CO) nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid) Sulphur oxides.

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENT RELEASE MEASURES

Personal precautions Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use personal protective equipment.

Environmental precautions do not allow to get into surface water, drains and ground water.

Methods for cleaning up Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8.Information regarding waste disposal, see section 13

7. HANDLING AND STORAGE

Handling

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Dust may form explosive mixture in air.

Storage

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in original container.

Store in a place accessible by authorized persons only.

Advice on common storage Keep away from food, drink and animal feeding stuffs.

Temperature tolerance min. -10 °C - Max. 40 °C

Suitable materials Polypropylene (PP) / Polyethylene (PE) - composite film

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: A time weighted average (TWA) has been established for Metribuzin, present in significant quantities in this product. This value is 5 mg/m3. The exposure value at TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The ADI for Metribuzin is set at 0.02 mg/kg/day. The corresponding NOEL is set at 2 mg/kg/day.

Engineering controls:

In industrial situations, concentration values below the TWA value should be maintained.

Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapors are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Respiratory Protection: It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.

Protective Gloves: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear.

Clothing: Clean overalls or protective clothing should be worn, preferably with an apron.

Safety boots: Wearing safety boots in industrial situations is advisory.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Column granule

Color : Off-white

Odor : NA

pH : 7.0-10.0

Corrosive: Non corrosive

Oxidisation: Not an oxidiser

10. STABILITY AND REACTIVITY

Polymerization: This product is unlikely to spontaneously decompose.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Oxides of sulphur and other sulphur compounds. Water.

Materials to avoid: Strong oxidizing agents.

11. TOXICOLOGICAL

Acute toxicity

Oral Acute oral LD50 for male rats 510, female rats 322, mice c. 700, guinea pigs c. 250, cats >500 mg/kg.

Skin and eye Acute percutaneous LD50 for rats >20 000 mg/kg.

Irritation: Not irritating to skin and eyes (rabbits).

Inhalation LC50 (4 h) for rats >0.65 mg/l air (dust).

Chronic toxicity

NOEL (2 y) for dogs 100 mg/kg diet (3.4 mg/kg b.w.), for rats 30 ppm (1.3 mg/kg b.w.. for males).

12. ECOLOGICAL INFORMATION

Birds Acute oral LD50 for bobwhite quail 164, mallard ducks 460–680 mg/kg.

Fish LC50 (96 h) for rainbow trout 74.6, golden orfe 141.6, sheepshead minnows 85 mg/l.

Daphnia LC50 (48 h) 49.6 mg/l.

Algae ErC50 for Scenedesmus subspicatus 0.021 mg/l.

Bees Not toxic to bees; LD50 35 µg/bee.

Worms LC50 for Eisenia foetida 331.8 mg/kg dry soil.

13. DISPOSAL CONSIDERATION

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label directions. Dispose of liquid contaminated material/or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.

14. TRANSPORT INFORMATION

DOT

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (METRIBUZIN)

Class : 9

Packing group : III

IATA

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (METRIBUZIN)

Class : 9

Packing group : III

IMDG

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (METRIBUZIN)

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Symbol:

N, Xn

Indication: Environmentally dangerous substance, Harmful.

Risk phrases:

R 20/22 Harmful by inhalation and if swallowed.

R 36 Irritating to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 2 Keep out of reach children.

S 24/25 Avoid contact with skin and eyes.

S 37/39 Wear gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

Version: 1.0

Issue date: Oct. 10. 2022

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --