



SHREEJI PESTICIDES PVT. LTD
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

Material safety data sheet METRIBUZIN 70% WP

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : METRIBUZIN 70% WP
Chemical Name : 4-amino-6-tert-butyl-4, 5-dihydro-3- methylthio-1, 2, 4-triazin-5-one
Users : Herbicide

Molecular Formula : C₈H₁₄N₄O₅
Manufacturer : SHREEJI PESTICIDES PVT LTD.
Address : Plot No. 69/P, Village - Manjusar, Tal. Savli, Dist. Vadodara - 391775
Gujarat, India :
Tele Fax Number 91 2667 264701

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	Cas #/EC-NO.	Percent Or Content(W/W)%
Metribuzin	21087-64-9/244-209-7	70.00
Alkyl aryl sulfonate	91078-64-7/ 293-346-9	> 1.00 -< 5.00
Other ingredients	--	Q.S.

3. HEALTH HAZARDS IDENTIFICATION

Acute Effects:

Swallowed: Data suggests that this product is harmful if swallowed.

Eye: This product may irritate eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects.

Skin: This product may irritate skin. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects.

Inhalation: Data suggests that this product should present no significant problems.

Effect on exposure:

Acute: Excessive salivation, sweating, fatigue, weakness, nausea, headache, dizziness, eye and respiratory tract irritation.

Chronic: same as above, plus conjunctivitis, photophobia, and blurred vision

4. FIRST AID MEASURES

First Aid:

Ipecac Syrup APF should be available in the area where product is used, or in a nearby unlocked medicine cabinet.



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If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

Eyes: If product gets in eyes, wash material from them with running water. If they begin watering or reddening, take special care in washing thoroughly.

Skin: If product gets on skin, thoroughly wash contacted areas. No further measures should normally be required unless irritation is noticed. If irritation persists, seek medical attention.

Inhalation: No first aid measures normally required. However, if vapors or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

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 (NO_x) 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. ACCIDENTAL 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



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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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor	: Powder. Characteristic odor.
Melting/softening point	: NO specific data. Solid at normal temperatures.
Boiling point and vapor pressure	: No specific data. Expected to decompose before boiling.
Volatile materials	: No specific data. Expected to be low at 100 degree C.
Flashpoint	: Not flammable.
Solubility in water	: Dispersible.
Corrosiveness	: not corrosive.

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 INFORMATION

Acute oral toxicity (Rats): 7095.56 mg/kg b.w

Irritancy skin: Non Irritant

Irritancy eye: Non Irritating

Skin sensitization: Non sensitizing

Acute Dermal : >2000 mg/kg b.w

12. ECOLOGICAL INFORMATION

- Acute Oral toxicity (LD50) study in birds: LD50>460-680 mg/L (mallard ducks)
- Acute toxicity (LC50) study in fishes: LC50 for 96h 80 ppm, bluegill sunfish 0.39ppm, rainbow trout 76ppm
- Acute Oral or Contact toxicity (LD50) study in honey bees: non-toxic to bees.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of product concentrate and diluted product according to local waste regulation authority.



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14. TRANSPORT INFORMATION

ADR/RID/ADNR UN-Number	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (METRIBUZIN MIXTURE)
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	3077
Labels	9
Packaging group	III
EmS	F-A, S-F
Marine pollutant	Marine Pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN MIXTURE)

IATA

UN-Number	3077
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (METRIBUZIN MIXTURE)

15. REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification: Hazard warning labelling compulsory

Hazardous components which must be listed on the label: Metribuzin

Symbol(s)

Xn

Harmful

N

Dangerous for the environment

R-phrase(s)



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R22	Harmful if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.
Exceptional labelling	to avoid risks to man and the environment, comply with the instructions for use.
Further information	WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.