

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** METRIBUZIN 70% WP  
**Use / description of product:** Use as an agricultural/horticultural herbicide  
**Company name:** INDOFIL INDUSTRIES LIMITED  
 Kalpataru Square, 4th Floor,  
 Kondivita Road, Off. Andheri Kurla Road, Andheri (E),  
 Mumbai 400 059, Maharashtra, India.  
 Email: [customercare@indofil.com](mailto:customercare@indofil.com)  
 Toll Free No.: 1800-120-003-004

**2. HAZARDS IDENTIFICATION**
**GHS Classification**
**Hazard Symbol**

**Signal word:**
**DANGER**
**Hazard statement(s):**

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H316 Causes mild skin irritation.  
 H318 Causes serious eye damage.  
 H402 Harmful to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P501 Dispose of contents/ container in accordance with national regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical name	CAS	%
Active ingredient (Metribuzin)	21087-64-9	70
Other ingredients	-----	QS

**4. FIRST AID MEASURES**
**Most Important symptoms and effects, both acute and delayed**
**Skin contact**

There may be mild irritation at the site of contact

**Eye contact**

There may be irritation and redness.

**Ingestion**

There may be soreness and redness of the mouth and throat

**Description of first aid measures**
**In general,**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Seek medical advice immediately (show the label where possible)

**After Ingestion**

If swallowed dilute by giving 2 glasses of water to drink and call a doctor. Never give any by mouth to an unconscious person

**After eye contact**

Flush eyes with plenty of water for at least 15 minutes and see doctor

**After skin contact**

Immediately wash skin with soap and plenty of water. Consult a

**After Inhalation**

physician if irritation develops.

Remove to fresh air. Consult a physician if irritation develops

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

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:**

Water spray. Carbon dioxide. Dry chemical powder.

**Exposure hazards:**

May form flammable / explosive dust-air mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.

**Protection of fire-fighters:**

Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Eliminate all sources of ignition. Do not create dust.

**Environmental precautions:**

Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:**

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Do not use equipment in clean-up procedure which may produce sparks.

**7. HANDLING AND STORAGE**

**Handling requirements:**

Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

When handling do not eat, drink or smoke.

**Storage conditions:**

Store in cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as herbicide and could create flammable vapours.

**Suitable packaging:**

Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:**

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:**

Wear approved respirator.

**Hand protection:**

Protective gloves

Requirements can vary as a function of the use. Therefore, it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Eye protection:**

Safety goggles.

**Skin protection:**

Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>State:</b>	Solid
<b>Colour:</b>	White to off white
<b>Odour:</b>	Characteristic odour
<b>Solubility in water:</b>	Forms dispersion in water
<b>pH</b>	5 to 8 (1% dispersion)
<b>Flash point °C:</b>	Not applicable

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Excessive temperatures.
<b>Hazardous decomp. products:</b>	Decomposition on heating above 22°C. Decomposed on heating in alkaline media with the formation of copper oxides. Decomposition will evolve toxic and irritant vapors.

**11. TOXICOLOGICAL INFORMATION**

<b>Hazardous ingredients:</b>	METRIBUZIN
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD <sub>50</sub> (Rat):	7095.56 mg/kg
Acute Dermal LD <sub>50</sub> (Rat)	No data
Acute Inhalation LD <sub>50</sub>	No data
EYE Irritation (Rabbit)	Not an irritant
SKIN Irritation (Rabbit)	Not an irritant
Skin Sensitization (Guinea Pig)	Not a sensitizer

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity: (Assessment largely or completely based on data for active substance)**

<b><u>Aquatic toxicity :</u></b>	Contamination of both terrestrial and marine environments should be avoided
LC <sub>50</sub> (96 h,)	Bluegill Sunfish 0.39 ppm, Rainbow trout 76 ppm
<b>Algae</b> EC <sub>50</sub> (120 hr)	<i>Selenastrum capricornutum</i> 33 mg/L
<b>Daphnia</b> EC <sub>50</sub> (48 hr)	>28 mg/l
<b>Bird .</b>	
Acute Oral, LD <sub>50</sub> (10 d)	> 460-680 mg/L (Mallard Duck)
<b>Honey Bee</b>	
LD <sub>50</sub> (contact)	non toxic
<b>Earthworm</b>	
LC <sub>50</sub> (14 d)	No data
<b>Environmental Fate</b>	
<b>Persistence and Degradability:</b>	No data
<b>Bio-accumulation potential:</b>	No data
<b>Mobility in soil:</b>	No data

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal operations:</b>	Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.
<b>Disposal of packaging:</b>	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. TRANSPORT INFORMATION

#### U.S> Department of Transportation (DOT)

##### Bulk

<b>UN no:</b>	3077
<b>Shipping name:</b>	Metribuzin 70% WP, Environmentally Hazardous Substance, solid, n.o.s.
<b>Hazard Class:</b>	9

Packing group: **III Land Transport (ADR / RID)** III

<b>UN no:</b>	3077
<b>Shipping name:</b>	Metribuzin 70% WP, Environmentally Hazardous Substance, solid, n.o.s.
<b>Hazard Class:</b>	9
<b>Packing group:</b>	III

#### Marine Transport (IMDG / IMO)

<b>UN no:</b>	3077
<b>Shipping name:</b>	Metribuzin 70% WP, Environmentally Hazardous Substance, solid, n.o.s.
<b>Hazard Class:</b>	9
<b>Packing group:</b>	III
<b>Marine pollutant:</b>	Yes
<b>EmS:</b>	F-A, S-F

#### Air transport (IATA / ICAO)

<b>UN no:</b>	3077
<b>Shipping name:</b>	Metribuzin 70% WP, Environmentally Hazardous Substance, solid, n.o.s.
<b>Hazard Class:</b>	9
<b>Packing group:</b>	III
<b>Cargo Packing instructions:</b>	

**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 N	Harmful Dangerous for the environment
R-phrases(s)	R22 R50/53	Harmful if swallowed Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	S35 S57	This material and its container must be disposed of in a safe way. 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****Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.