

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

Product name: PYRAZOSULFURAN ETHYL 10% 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.
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2. HAZARDS IDENTIFICATION**GHS Classification****Hazard Symbol****Signal word:****DANGER****Hazard statement(s):**

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H320 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated
H411 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 (Pyrazosulfuran Ethyl)	93697-74-6	10
Other ingredients	-----	QS

4. FIRST AID MEASURES**Most Important symptoms and effects, both acute and delayed****Skin contact**
Eye contact
IngestionThere may be mild irritation at the site of contact
There may be irritation and redness.
There may be soreness and redness of the mouth and throat

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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	Do not induce vomiting. Provided the patient is conscious. Wash mouth with water and give plenty of water to drink. Consult a physician or Doctor if victim feels unwell.
After eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
After skin contact	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
After Inhalation	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:	Keep out of reach of children. Do not eat, drink or smoke when using this product. Remove all sources of ignition. Wash thoroughly after handling. Handle in accordance with good industrial and safety practice.
Storage conditions:	Store in original container. Store locked up.
Suitable packaging:	Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established
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

State:	Solid
Colour:	White to buff
Odour:	Slight Characteristic
Solubility in water:	Forms dispersion in water
pH	6 to 8 (1% dispersion)
Flash point °C:	No data

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Excessive temperatures.
Hazardous decomp. products:	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

Hazardous ingredients:	Pyrazosulfuron Ethyl
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat)	> 5000 mg/kg
Acute Dermal LD ₅₀ (Rat)	> 2000 mg/kg
Acute Inhalation LD ₅₀	6.171 mg/L
EYE Irritation (Rabbit)	May cause mechanical eye irritation.
SKIN Irritation (Rabbit)	May be harmful if inhaled
Skin Sensitization (Guinea Pig)	May cause mild skin irritation

12. ECOLOGICAL INFORMATION

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

<u>Aquatic toxicity :</u>	Material is very toxic to aquatic organisms.
Fish	
LC ₅₀ (96 h,)	13.68 mg/L
Daphnia EC₅₀ (48 hr)	49 mg/L
Algae (72h)	
Acute Oral, LD ₅₀	0.02 mg/L

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Honey Bee	Material is non-toxic to bees
LD ₅₀ (oral)	No data
LD ₅₀ (contact)	No data
Earthworm	
LC ₅₀ (14 d)	No data
Environmental Fate	
Persistence and Degradability:	No information available.
Bio-accumulation potential:	No information available
Mobility in soil:	No information available

13. DISPOSAL CONSIDERATIONS

Disposal operations:	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.
Disposal of packaging:	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	
UN no:	3077
Shipping name:	Environmentally Hazardous Substance, solid, n.o.s. (Pyrazosulfuron Ethyl)
Hazard Class:	9
Packing group:	III

Land Transport (ADR / RID)

UN no:	3077
Shipping name:	Environmentally Hazardous Substance, solid, n.o.s. (Pyrazosulfuron Ethyl)
hazard Class:	9
Packing group:	III

Marine Transport (IMDG / IMO)

UN no:	3077
Shipping name:	Environmentally Hazardous Substance, solid, n.o.s. (Pyrazosulfuron Ethyl)
Hazard Class:	9
Packing group:	III
Marine pollutant:	Yes
EmS:	F-A, S-F

Air transport (IATA / ICAO)

UN no:	3077
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Issued date: 22.10.2022
Revised date: 04.03.2024
Revision No: 01
Ref: IIL/PYSFETH10WP

Packing group:

III

Cargo Packing instructions:

15. REGULATORY INFORMATION

Risk Phrase

R 23/25: toxic by inhalation and if swallowed.
R 51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R 57: Toxic to bees.

Safety phrase

S 1/2: Keep locked up and out of reach of children.
S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S 35: The material and its container must be disposed-off in a safe way.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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.