

**SAFETY DATA SHEET**  
**OXYFLUORFEN 23.5% EC**  
**(OXYGOLD)**Page 1 of 6  
Issued date: 22.10.2020  
Revised date: 12.12.2022  
Revision No: 01  
Ref: IIL/OXY23.5EC**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product name:** OXYFLUORFEN 23.5% EC  
**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):**

**DANGER**

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 exposure.  
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 (Oxyfluorofen)	42874-03-3	23.5
Inert ingredients	-----	QS mark up to 100

**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

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Page 2 of 6  
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<b>Eye contact</b>	There may be irritation and redness. The vision may become blurred
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat

**Description of first aid measures**

<b>In general</b>	Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
<b>After Ingestion</b>	Do not induce vomiting. Provided the patient is conscious, wash mouth with water and give plenty of water to drink. Consult a physician. The decision of whether to induce vomiting or not should be made by a physician.
<b>After eye contact</b>	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.
<b>After skin contact</b>	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
<b>After Inhalation</b>	Remove victim to fresh air. Consult a physician if irritation develops

**Indication of any immediate medical attention and special treatment needed**  
Supportive care. No specific antidote. Treat symptomatically and give supportive therapy.

**5. FIRE-FIGHTING MEASURES**

<b>Extinguishing media:</b>	Water spray. Carbon dioxide. Dry chemical powder.
<b>Exposure hazards:</b>	May form flammable mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.
<b>Protection of fire-fighters:</b>	Do not enter fire areas without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions:</b>	Eliminate all sources of ignition. Use appropriate protection.
<b>Environmental precautions:</b>	Dispose of this material and its container at hazardous or special waste collection point if the product has contaminated surface water, inform the appropriate authorities.
<b>Clean-up procedures:</b>	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean up spills as soon as possible, using an absorbent material to collect it.

## 7. HANDLING AND STORAGE

<b>Handling requirements:</b>	Avoid ingestion, skin and eye contact. Prevent entry to sewers and public waters. When using, do not eat, drink or smoke.
<b>Storage conditions:</b>	Store in tightly closed, well ventilated area away from heat, sparks, open flame. Keep in original containers. Keep 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.
<b>Suitable packaging:</b>	Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures:</b>	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
<b>Respiratory protection:</b>	Wear approved respirator.
<b>Hand protection:</b>	Wear 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.
<b>Eye protection:</b>	Safety goggles or face shields.
<b>Skin protection:</b>	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>	Liquid
<b>Colour:</b>	Clear brown
<b>Odour:</b>	Not available
<b>Solubility in water:</b>	Forms emulsion in water
<b>Specific Gravity:</b>	1.08 g/cc

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Direct sunlight, sources of heat, open flame. Decomposes upon heating.
<b>Hazardous decomp. products:</b>	Thermal decomposition may generate: Carbon monoxide, carbon dioxide, nitrogen oxides, chlorides.

## 11. TOXICOLOGICAL INFORMATION

<b>Hazardous ingredients:</b>	OXYFLUORFEN
<b><u>Acute toxicity (Assessment largely or completely based on data for active substance)</u></b>	
Acute Oral LD <sub>50</sub> (Rat)	2985 - 4594 mg/kg
Acute Dermal LD <sub>50</sub> (Rat)	> 4000 mg/kg
Acute Inhalation LD <sub>50</sub>	> 4.8 mg/kg
EYE Irritation (Rabbit)	Mild 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)**

**Aquatic toxicity:** Material is very toxic to aquatic organisms.

#### **Fish**

LC<sub>50</sub> (96 h,) Rainbow Trout 1.1 mg/l,  
Bluegill sunfish 1.2 mg/l

**Algae** EC<sub>50</sub> (72 hr) 0.2 mg /l

#### **Bird**

Acute Oral, LD<sub>50</sub> (9-11 d) Non toxic to birds  
Acute dietary, LC<sub>50</sub> (5 d) Non toxic to birds.

#### **Earthworm**

LC<sub>50</sub> (14 d) > 1000 mg/kg

### **Environmental Fate**

**Persistence and Degradability:** Half-life in soils is dependent on soil type and conditions and is approximately 6-15 days.

**Bio-accumulation potential:** Bio-concentration potential is low.  
Partition coefficient, n-octanol/water (log Pow): 1.38

**Mobility in soil:** Partially mobile in soil, strong adsorption to soil particles, low potential to leach below top soil layer.

## 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:** 3082  
**Shipping name:** Environmentally Hazardous Substance, liquid, n.o.s.  
 (Oxyfluorfen 23.5% EC)  
**Hazard Class:** 9  
**Packing group:** III

**Land Transport (ADR / RID)**

**UN no:** 3082  
**Shipping name:** Environmentally Hazardous Substance, liquid, n.o.s.  
 (Oxyfluorfen 23.5% EC)  
**Hazard Class:** 9  
**Packing group:** III

**Marine Transport (IMDG / IMO)**

**UN no:** 3082  
**Shipping name:** Environmentally Hazardous Substance, liquid, n.o.s.  
 (Oxyfluorfen 23.5% EC)  
**Hazard Class:** 9  
**Packing group:** III  
**Marine pollutant:** Yes  
**EmS:** F-A, S-F

**Air transport (IATA / ICAO)**

**UN no:** 3082  
**Shipping name:** Environmentally Hazardous Substance, liquid, n.o.s.  
 (Oxyfluorfen 23.5% EC)  
**Hazard Class:** 9  
**Packing group:** III  
**Cargo Packing instructions:** ---

**15. REGULATORY INFORMATION**

**Classification and User Label Information :**

Xn – Harmful

N - Dangerous for the Environment

**Hazard Symbol**



**Risk Phrases**

R22 - Harmful if swallowed.  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases**

S35 - This material and its container must be disposed of in a safe way.

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Page 6 of 6

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S57 - Use appropriate containment to avoid environmental contamination. To avoid risks to man and the environment, comply with the instructions for use

**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.