



INDOFIL INDUSTRIES LTD.
KOLSHET, OFF SWAMI VIVEKANAND ROAD,
AZAD NAGAR, SANDOZ BAUG P.O.,
THANE – 400 607. MAHARASHTRA (INDIA)
TEL. NO. : 00-91-22-2589 8340-41-42,
FAX NO. : 00-91-22-2589 83 57 / 59

MATERIAL SAFETY DATA SHEET

2-R&D-MSDS-RM- 483.

SECTION 1. PRODUCT IDENTIFICATION		
Chemical Name	PROPIQUIZAFOP 100 EC (R)-2[[(1 -methylethylidene)amino]oxyethyl 2-[4-[(6-chloro-2-quinoxalinyloxy]phenoxy]propanoate	Company Identification INDOFIL INDUSTRIES LIMITED KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22-2589 8340-41-42, FAX NO. : 00-91-22-2589 83 57 / 59
Trade Name	SOCIETY	
Synonyms	-----	GROUP :
CAS Number	111479-05	Class : HERBICIDE
Formula	N/A	
SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS		
COMPONENT NAME	CAS REGISTRY NO	CONCENTRATION %
Propaquizafop	111479-05	9.8
Poly(oxy-1,2-ethanediyl),alpha-isotridecylomega-hydroxy-	9043-30-5	30--40
N-Methyl-2-pyrrolidone	872-50-4	9 10
Solvent naphtha (petroleum), heavyarom. (solvesso	64742-94-5	35--42

SECTION 3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Physical state : Liquid

Colour : Yellow- Brown

INGESTION :Eating or swallowing product may cause vomiting.**INHALATION** : Inhalation of nuisance dust may cause coughing.**EYE CONTACT**: Test data indicates that product is an eye irritant.**SKIN CONTACT** : Test data indicates that product is a skin irritant.**DELAYED EFFECTS** : No delayed effects known.**IMMEDIATE HEALTH EFFECTS**

Eye contact	Test data indicates that product is an eye irritant.
Skin contact	Test data indicates that product is a skin irritant
Ingestion	Eating or swallowing product may cause vomiting.
Inhalation	Inhalation of nuisance dust may cause coughing

DELAYED OR OTHER HEALTH EFFECTS

Target organs	No delayed effects known
An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)	
OSHA Health Hazard Classification	OSHA Physical Hazard Classification

Toxic <input type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input type="checkbox"/>	Oxidizer <input type="checkbox"/>
Irritant <input type="checkbox"/>	Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>	
Corrosive <input type="checkbox"/>	Carcinogenic <input type="checkbox"/>	Explosive <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>
		Pyrophoric <input type="checkbox"/>	unstable <input type="checkbox"/>
		Organic peroxide <input type="checkbox"/>	water-reactive <input type="checkbox"/>

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SECTION 4 : FIRST AID MEASURES	
Eye	Flush immediately with large amounts of water for at least 15 minutes repeatedly holding eyelids open. Call a physician immediately.
Skin	Flush with clean water.
Ingestion	Give the patient large amounts of water or milk to drink for dilution effect. Not necessary to induce vomiting. Contact a physician for advice.
Inhalation	Any inhalation hazard is related only to general nuisance dusting. If a person inhales large amounts of dust, move person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Call a physician immediately.
Notes to physician	There is no specific antidote. Treat symptomatically and give supportive therapy.

SECTION 5 : FIRE FIGHTING MEASURES	
NFPA Flammability Classification	-----
NFPA RATINGS	Health: ---- Flammability :---- Reactivity:----
OSHA classification	No data
Flash point	101oC
Flammability (Explosive limits)	No data
Auto ignition Temperature	No data
Hazardous Combustion products	Combustible. combustible substances - toxic and/or Irritating' Flashback may occur along vapour trail. Use appropriate containment to avoid environmental contamination..
Extinguishing Media	Dry chemical, water spray, foam, carbon dioxide.
Protection of Fire Fighters	Self-contained breathing apparatus and total protection required in enclosed areas.
Special Properties	No Data

SECTION 6 : ACCIDENTAL RELEASE MEASURES	
Protective Measures	Appropriate protective equipment must be worn when handling a spill of this material. See section 8, Exposure controls/ Personal protection for recommendations . If exposed to material during clean-up operations see Section 4.
Spill Management	STEPS TO BE TAKEN TO HANDLE SPILLS OR RELEASES : Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

SECTION 7 : HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Ventilation required' Keep away from: sparks, open flame and direct sunlight.
Storage	Keep only in the original container' Keep in a cool, dry, well ventilated place away from direct sunlight. Keep at temperatures above Freezing point. Keep away from food, drink and animal feeding stuffs' Storage: >35oC and <-10oC

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Ventilation: Adequate for comfort.
Personal Protective Equipment	<p>Eye Protection: Wear eye protection such as safety glasses, chemical goggles or face shields if engineering controls or work practices are not adequate to prevent eye contact.</p> <p>Hand protection : Avoid skin contact . chemical –resistant gloves should be worn whenever this material is handled. Wash hands with clean water.</p> <p>Body protection: Avoid skin contact .Wear long-sleeved fire-retardant garments.</p> <p>Respiratory Protection: If use generates a dust, use a NIOSH approved dust mask. A full respiratory protection program is recommended. Refer to NOISH/OSHA “Occupational Health Guidelines for Chemical Hazards” for additional details.</p>

Occupational exposure limits (exposure limit information)

Component	Limit	TWA	STEL	Ceiling	Notation
N-Methyl-2-Pyrrolidone	OSHA ACGIH	None 25 ppm (skin)	None 75 ppm (skin)	NA	NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Colour	Yellow - Brown
Odor	Aromatic (Naptha)	pH	About 5 - 8 @ 5% solution.
Specific gravity	1.025 +/- 0.015 g/ml @20oC	Solubility in water	Not soluble.
Vapor pressure	Not applicable	Vapor density	Not applicable
Viscosity	Not applicable	Boiling point	> 194oC
Melting / Freezing point	< -10oc	Evaporation rate	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid	Not applicable
Material Incompatibility	Oxidizing agents, acids and alkali..
Hazardous Decomposition Products	Chloride compounds and nitrogen oxide.
Hazardous Polymerization	Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral toxicity	LD5s (rat) = 2,561 mg/kg
Acute Dermal toxicity	LD5s (rat) > 2,000 mg/kg
Acute Inhalation toxicity	LC56 (rat) > 5.35 mg/l (4 hours)
Eye irritation: This material is irritant to the eyes Skin irritation: This material is irritant to the skin Respiratory Tract irritation: Not harmful.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data
Environmental fate	No data

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL PROCEDURES : This product as sold is not a federal hazardous waste according to EPA regulations 40 CFR 261. Dispose of waste product in accordance with state and local regulations.

Disposal Regulatory Requirements : N/A

Container Cleaning and Disposal : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers, In accordance with national and regional regulations.

SECTION 14 : TRANSPORT INFORMATION

	U.S DOT Hazard class ---- Non regulated
DOT Shipping Name	Not applicable
DOT Hazard class	Not applicable
DOT identification number	Not applicable
DOT packing Group	Not applicable
DOT additional information	Not applicable

SECTION 15: REGULATORY INFORMATION	
Work place classification	This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations.
SARA TITLE 3 : SECTION 311/312 Hazard Identification	No data
SARA TITLE 3 : SECTION 302/304 Emergency planning and notification	No data
SARA TITLE 3 : SECTION 313 Toxic chemical notification and Release reporting	None
CERCLA (40 CFR 302.4)	-----
Waste classification	No data
Clean Air Act	This product does not contain ozone-depleting substances as defined by the Clean Air Act Amendments of 1990.

SECTION 16: OTHER INFORMATION	
NFPA RATINGS	Health : --- Flammability :---- Reactivity :---
HMIS RATINGS	Health : 1 Flammability :0 Reactivity :0
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme

ABBREVIATIONS

STEL	Short term exposure limit
ACGIH	American conference of Government Industrial Hygienists
NIOSH	National institute of safety and health
SARA	Super fund Amendments and Reauthorization Act
TWA	Time weighted average
OSHA	Occupational safety and health
NFPA	National Fire protection agency
HMIS	Hazardous Materials information system
RCRA	Resource conservation Recovery act
TSCA	Toxic substance Control Act
WHMIS	Work place Hazardous Materials information system
IRAC	International Agency for Research on Cancer

MANUFACTURE'S / SUPPLIER'S DATA

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Local Bodies Involved	Collector of Thane			

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