

**INDOFIL CHEMICALS COMPANY**  
 KOLSHET, OFF SWAMI VIVEKANAND ROAD,  
 AZAD NAGAR, SANDOZ BAUG P.O.,  
 THANE – 400 607. MAHARASHTRA (INDIA)  
 TEL. NO. : 00-91-22-6799 9100  
 FAX NO. : 00-91-22-2589 83 57 / 59



## MATERIAL SAFETY DATA SHEET

**2-R&D-MSDS- AGRO-FP- 402**

<b>SECTION 1. PRODUCT IDENTIFICATION</b>		
<b>Chemical Name</b>	2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)=acetamide  <b>Pretilachlor tech.</b>	<b>Company Identification</b> INDOFIL CHEMICALS COMPANY KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO. : 00-91-22-6799 9100 FAX NO. : 00-91-22-2589 83 57 / 59
<b>Trade Name Product</b>	<b>Offset Pretilachlor 50% EC</b>	
<b>Synonyms</b>		<b>Chemical classification:</b> Acetanilide
<b>IUPAC</b>		
<b>CAS Number</b>	51218-49-6	
<b>Formula</b>	C17-H26-C1-N-02	

**SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS**

<b>COMPONENT NAME</b>	<b>CAS REGISTRY NO</b>	<b>CONCENTRATION</b>
Pretilachlor	51218-49-6	50% Emulsifiable concentrate W/W

**SECTION 3. HAZARDS IDENTIFICATION**

<p><b>EMERGENCY OVERVIEW</b></p> <p>Physical state : Liquid            Colour : Yellowish to light brown</p> <p>Health Hazards : Irritating to skin and eyes. May cause sensitization by skin contact.</p> <p>Environmental hazard in case of accident (spillage/Leakage): Toxic to fish.</p>
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**IMMEDIATE HEALTH EFFECTS**

<b>Eye contact</b>	Irritation to eyes.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause irritation.
<b>Ingestion</b>	Material is possibly harmful if swallowed.
<b>Inhalation</b>	Material is possibly harmful if inhaled.

**DELAYED OR OTHER HEALTH EFFECTS**

Target organs	No data
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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
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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"/>

**SECTION 4 : FIRST AID MEASURES**

<b>Eye</b>	Flush eyes with large amount of water for at least 15 minutes and see doctor. Obtain medical advice immediately.
<b>Skin</b>	Remove contaminated clothing, wash skin with soap and water including hair and under fingernails. Consult a physician if irritation persists.
<b>Ingestion</b>	Repeatedly administer medicinal charcoal in a large quantity of water. NOTE : Never give anything by mouth to an unconscious person. Do not induce vomiting.
<b>Inhalation</b>	Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from under cooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.
<b>Notes to physician</b>	No specific antidote is known. Apply symptomatic therapy.

**SECTION 5 : FIRE FIGHTING MEASURES**

<b>NFPA Flammability Classification</b>	-----
<b>NFPA RATINGS</b>	Health: 1      Flammability :1      Reactivity: 1

<b>OSHA classification</b>	No data
<b>Flash point</b>	NA
<b>Flammability (Explosive limits)</b>	NA
<b>Auto ignition Temperature</b>	NA
<b>Hazardous Combustion products</b>	NA
<b>Extinguishing Media</b>	Dry chemical powder, CO2, Water, Water Spray
<b>Protection of Fire Fighters</b>	Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective clothing.
<b>Special Properties</b>	Use Water spray to cool container. Wear self contained breathing apparatus.

### **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

<b>Protective Measures</b>	<p>Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.</p>
<b>Spill Management</b>	

### **SECTION 7 : HANDLING AND STORAGE**

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapors. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works (ie splash proof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.
<b>Storage</b>	Store the product in closed original containers. Protect from light and humidity.

<b>SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
<b>Engineering controls</b>	Provide exhaust ventilation or other engineering controls. An emergency eye wash station and safety shower should be located near the work-station
<b>Personal Protective Equipment</b>	<p>In General : Change working clothes daily.</p> <p>Breathing Protection : Gas mask with universal filter.</p> <p>Eye Protection : Goggles or face-shield.</p> <p>Hand Protection : Chemical-resistant gloves.</p> <p>Body Protection : Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy-duty shoes or boots.</p> <p>Precautionary measures after work : Wash thoroughly (shower, bathe, wash hair. Change clothing. Thoroughly clean Protective gear. Thoroughly clean contaminated equipment with soap or soda solution.</p>

### Occupational exposure limits

Component	Limit		
Pretilachlor tech.	NA		

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Physical state</b>	Liquid	<b>Colour</b>	Yellowish to light brown
<b>Odor</b>	NA	<b>PH</b>	NA
<b>Specific gravity (Water=1)</b>	NA	<b>Solubility in water</b>	Miscible
<b>Vapor pressure@ 20°C (mm Hg)</b>	0.133 mPa (20 ° C.)	<b>Vapor density (Air=1)</b>	NA
<b>Viscosity</b>	NA	<b>Boiling point (°C)</b>	170 ° c
<b>Melting point (°C)</b>	NA		

<b>SECTION 10: STABILITY AND REACTIVITY</b>	
<b>Chemical stability</b>	Stable under standard conditions.
<b>Conditions to Avoid</b>	Keep dry and avoid excessive heat and ignition.
<b>Material Incompatibility</b>	Store separately from feed, food and stimulants.
<b>Hazardous Decomposition Products</b>	Combustion products are toxic and/or irritant.
<b>Hazardous</b>	Data not available

<b>Polymerization</b>	
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### **SECTION 11: TOXICOLOGICAL INFORMATION**

Acute Oral toxicity	Oral LD50	:	For rats >2,000 mg/kg.
Acute Dermal toxicity	Dermal LD50	:	For rats >4000 mg/kg.
Acute Inhalation toxicity	Acute Inhalation LC <sub>50</sub> (4 h)	:	For rats >5180 mg/m <sup>3</sup> (4h).
Acute Skin irritation	:		Irritant (rabbit).
Acute Eye Irritation	:		Irritant (rabbit).
Skin Sensitization	:		Sensitizing (Guinea pig)

### **SECTION 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Contamination of both terrestrial and marine environments should be avoided		
<b>Environmental fate</b>	Environmental hazard in case of accident (Spillage/Leakage)	:	Toxic to fish

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR part 261) or other state and local regulations.

Dispose of empty, used containers in approved incineration plant in approved land filling area or in a disposal pit away from desirable plants and their roots and water courses. On-site disposal of undiluted product is unacceptable. Breaking, crushing or puncturing the container to prevent reuse.

Disposal Should be in accordance with local state or national legislation. Remove to a safe location and bury on an authorized landfill site. Do not burn empty containers or Product.

### **SECTION 14 : TRANSPORT INFORMATION**

	Special information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.
<b>DOT Shipping Name</b>	<u>Rail/Road (RID/ADR)</u> Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. <u>Sea (IMDG-Code)</u> Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

<b>DOT Hazard class</b>	9
<b>DOT identification number</b>	3082
<b>DOT packing Group</b>	III
<b>DOT additional information</b>	No data

### SECTION 15: REGULATORY INFORMATION

<b>TSCA Inventory</b>	No data
<b>SARA 311/312 Hazard Identification</b>	Immediate ( acute) health effects: yes Delayed ( chronic) health effects : yes Reactive: yes This product contains the substances subject to the reporting requirements of SARA title 3, section 313 and 40 CFR part 372.
<b>SARA 302/304 Emergency planning and notification</b>	No data
<b>SARA 313 Toxic chemical notification and Release reporting</b>	This product contains the following components in concentrations above that are listed as toxic chemicals in 40 CFR part 372 pursuant to the requirements of section 313 of SARA.
<b>CERCLA</b>	No data
<b>Clean air act (CAA)</b>	Not applicable

### SECTION 16: OTHER INFORMATION

<b>NFPA RATINGS</b>	Health : 1	Flammability :1	Reactivity :1
<b>HMIS RATINGS</b>	Health : 1	Flammability :1	Reactivity :1
	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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Telephone 6799 9100	Telex		Telephone 22767 5084	Telephone 22712 2302
Fax 589 8357	Telegraphic Code		Fax 22767 5083	Fax 22712 9242
Local Bodies Involved		Collector of Thane		

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