

## REFIT 50 EC

## Material Safety Data Sheet December, 2002

## 1. Identification of the substance / preparation and of the company / undertaking

## Identification of the substance or preparation

Trade Name RIFIT 50 EC Design Code A5565F AGI Code 101637 Company / undertaking identification

## Company Syngenta India Limited

Crop Protection Division  
Royal Insurance Building, 3rd Floor,  
14 J.Tata Road, Churchgate,  
Mumbai - 400 020. India.

Telephone Tel : 91 22 2280 2200

E-mail Address hse.india@syngenta.com

## 2. Composition / information on ingredients

## Chemical characteristics

## Formulation type

Emulsifiable concentrate

## Sector

Herbicide

## Active ingredient(s)

50 % w/w Pretilachlor CGA26423

## Hazardous Component(s)

## CAS Product Denomination

51218-49-6 Pretilachlor

## %W/W

50.0

## Hazard Symbol

N,Xi

## Risk Phrases

38-43-50/53

26264-06-2

51218-49-6	Pretilachlor	50.0	N,Xi	38-43-50/53
26264-06-2	Dodecyl benzene sulfonic acid,calcium salt	3.6	Xi	36/38
8001-79-4	Castor oil Polyglycol Ether	4.4		None
	Epoxised Soyabean oil	3.0		
54742-85-6	Solvent C-9	39.0	Xi, Xn	10,20,36,37,38

## 3. Hazards Identification

**Health Hazards:** Irritating to skin and eyes. May cause sensitization by skin contact. **Environmental hazard in case of accident (Spillage/Leakage):** Toxic to fish.

## 4. First-Aid Measures

### **General:**

Remove the affected person from the danger zone to a wellventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

### **Eye Contact:**

Rinse eyes with clean water for several minutes and immediately call a physician.

### **Ingestion:**

Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting.

### **Skin Contact:**

Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water, including hair and under fingernails.

### **Medical Instructions**

No specific antidote is known! Apply symptomatic therapy.

### **Experiences Specific to Man:**

No case of human poisoning is on record..

## 5. Fire-Fighting Measures

**Combustibility:** yes

### **Extinguishing media**

#### **Suitable Extinguishing Media:**

Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).

### **Fire fighting**

#### **Special Hazards during Fire Fighting:**

Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

#### **Protective Equipment for Fire Fighting:**

Use respirator to protect from fumes.

**Swiss Fire Prevention Class:** F2 L

## 6. Accidental Release Measures

### **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.

## 7. Handling and Storage

### **Handling information**

#### **General:**

Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures taken usually in the chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

#### **Storage information**

Special Instructions for Storage:

Store the product in closed original containers. Protect from light and humidity.

### Storage Compatibility with other Products:

Store separately from feed, food and stimulants.

**Storage temperature Max. Storage Temperature : 35 °C Min. Storage Temperature : -10 °C**

## 8. Exposure controls / Personal protection

GERMANY (isobutanol) MAK (DFG): 100 ppm; 300 mg/m<sup>3</sup> Notes: C SWITZERLAND (isobutanol) MAK (SUVA): 150 mg/m<sup>3</sup>; 50 ppm STEL (SUVA): 100 ppm; 300 mg/m<sup>3</sup> Notes: C USA (isobutanol) TWA (ACGIH): 152 mg/m<sup>3</sup>; 50 ppm IDLH (NIOSH): 1600 ppm

**General** Change working clothes daily.

**Personal Protective Equipment / In case of heavy exposure, wear:** Gas mask with universal **Breathing Protection** filter. **Personal Protective Equipment / Hand** Chemical-resistant gloves

**Protection**

**Personal Protective Equipment / Eye** Goggles or face-shield. **Protection Personal Protective Equipment / Body** Heavy duty cotton or synthetic fabric working clothes (e.g.

**Protection** overalls). Heavy-duty shoes or boots. **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.

## 9. Physical & Chemical Properties

**Form:** liquid **Color:** yellow to light brown **Physical State:** liquid **Melting Point/Range:** not applicable **Solidification Point:** < -10 °C

**Boiling Point/Range** > 170 °C **Flash-Point:** 53 °C EEC A 9 **Thermal Stability Exothermic reaction:** no exothermic reaction at 350 °C (Lütolf; 350 °C;

isoperibol) **Flammability of Gas:** inflammable at 200 °C **Density:** 1 OECD 109 **pH Value:** 3 - 7 (1 %;

in deionised water) CIPAC MT 75.2 **Miscibility with water:** miscible

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## 10. Stability and Reactivity

### Chemical Stability

Assessment: Stable under standard conditions.

**Sensitivity Sensitivity to humidity:** not sensitive to humidity **Air Sensitivity:** not sensitive to air

### Corrosiveness

Corrosiveness / Appropriate Material: not corrosive

**11. Toxicological Information** **Acute Oral Toxicity LD50:** > 2000 mg/kg (rat) **Acute Dermal Toxicity LD50:** > 4000 mg/kg (rat) OECD 402 **Acute Inhalation Toxicity LC50:** > 5180 mg/m<sup>3</sup> (rat; 4 h) **Acute Skin Irritation:** irritant (rabbit; assessment according to 83/467/EEC) **Acute Eye Irritation:** irritant (rabbit; assessment according to 83/467/EEC) **Skin Sensitization:** sensitizing (guinea pig; Maximization test)

**12. Ecological Information** **Acute Toxicity to Fish LC50:** 2.4 ppm (Cyprinus carpio (Common carp); 96 h) **13. Disposal Considerations**

#### Product Disposal:

Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with carbonated or soapy water. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. 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 and dispose of in an incinerator approved for chemicals.

#### Damaged Containers:

Dispose of empty Containers in an incinerator approved for chemicals. Damaged Containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

### 14. Transport Information

#### Special Information:

Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

<b>Rail / Road (RID /ADR) Class</b> Copher 3	<b>UN no.</b> 1993	<b>Kemmler Index</b> 30	<b>CEPIC</b>
31C			30G35

Proper Shipping Name Additional Information <b>Sea (IMDG-Code)</b>	FLAMMABLE LIQUID,N.O.S. (SOLVENT NAPHTHA) Class UN No. Pack. Group	EMS	MFAG
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Proper Shipping Name Additional Information	FLAMMABLE LIQUID,N.O.S. (SOLVENT NAPHTHA AND PRETILACHLOR 50%,MARINE POLLUTANT)
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<b>Air (ICAO / IATA)</b>	<b>Class UN No. Pack Group</b>
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Proper Shipping Name FLAMMABLE LIQUID,N.O.S.

Additional Information (SOLVENT NAPHTHA)

Swiss POST: 3 (restricted in Switzerland, with special permission POST)

## 15. Regulatory Information

### EU-Classification

### Hazard Symbol Risk Phrases

Xi  
10 Irritant Flammable.

36/38 Irritating to eyes and skin.

43 2 May cause sensitization by skin contact.

13 Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs

### Safety Phrases

20/21 When using do not eat, drink or smoke.

24 Avoid contact with skin.

37 Wear suitable gloves. pretilachlor Slightly

III hazardous 2000 kg

Source of Hazard International WHO Toxicity  
Classification Weight limit (Switzerland) as prescribed by  
accident regulations

## 16. Other Information

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

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