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## MATERIAL SAFETY DATA SHEET

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### SECTION 1 – CHEMICAL NATURE

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PRODUCT : Alpha -Cypermethrin 5 EC – Agricultural / Public Health Insecticide

CHEMICAL NAME : A racemate comprising of (S)-  $\alpha$ -cyano-phenoxybenzyl(1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate and ® - $\alpha$ -cyano-3-phenoxybenzyl(1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylpropanecarboxylate.

CHEMICAL FAMILY : Pyrethroid

CHEMICAL FORMULA :  $C_{22}H_{19}Cl_2NO_3$

MOLECULAR WEIGHT : 416.3

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### SECTION 2 – COMPOSITION, INFORMATION OF INGREDIENTS COMPONENT

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	Percent Purity	CAS NO.
Alphacypermethrin	5.0 % A.I.	67375-30-8
Other Ingredients	95.0 %	

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### SECTION 3 – HAZARDS IDENTIFICATION SUMMARY

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#### Emergency Overview

White to pale liquid with weak aromatic odor.  
Thermal decomposition may form toxic gasses.  
For larger exposures or fire, wear personal protective equipments.  
Highly toxic to fish and aquatic organisms.  
Keep away from drains and water sources.

#### Potential Health Hazards:

Harmful if inhaled or swallowed.

Dust ,mist or vapor irritating to eyes and respiratory tract.

May cause skin irritation. May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

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## SECTION 4 – FIRST AID MEASURES

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**IF INHALED :** Remove person from exposure area to fresh air. Give artificial respiration, preferably mouth to mouth. If not breathing difficulty or discomfort occurs or persists get medical attention.

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**IF ON SKIN :** Take of contaminated clothing. Wash skin with plenty of soap and water.

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**IF SWALLOWED :** Do not induce vomiting unless to to do it.. Immediately contact physician, Poison Control or an emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

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**IF IN EYES :** Hold eye open and rinse with plenty of water for 15 to 20 minutes. If irritation continues, call a doctor.

**ANTIDOTE :** Give symptomatic treatment as per symptoms and cause.

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## SECTION 5 – FIRE FIGHTING MEASURES

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**FLASH POINT** - Not autoflammable

**EXTINGUISHING MEDIA :** Use dry chemicals. Foam ,CO2 or dry chemical. Soft stream of water fog only if needed.

**FIRE AND EXPLOSION HAZARD:** Slightly combustible. Material may not support combustion at elevated temperatures.

**FIRE FIGHTING EQUIPMENT:** Isolate fire area. Evacuate down wind. Wear self-contained breathing apparatus pressure and protective gears.. Do not smoke, gasses or vapor generated.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, Carbon Monoxide, Dry chemicals.

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## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions . Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in properly labeled disposal container. Dike to confine spill and absorb with non – combustible absorbent like clay, sand or soil. Vacuum shovel or pump waste in to drum and label contents for disposal. Large spills may be neutralized with dilute solutions of soda ash or with appropriate alcohol. After removal , flush contaminated area thoroughly with water . Do not allow any material to run off in soil, drainage systems or bodies of water. Notify and consult with proper regulatory authorities.

## **SECTION 7 – HANDLING AND STORAGE**

**GENERAL PROCEDURES :** Store in a cool dry , well ventilated place in original container away from children and animals. Keep away from food, animal feed , other pesticides fertilizers and drinking water. Prevent eating,drinking tobacco use and cosmetic application in areas where there is a potential for exposure to the material.

## **SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION**

**ENGINEERING CONTROL:** Use local exhaust ventilation at all processes locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE AND FACE PROTECTION** - Safety goggles or face shield. Storing facility should be equipped with eye wash facility and safety shower.

**CLOTHING** – Long sleeved shirt and long pants, shoes plus socks, chemical resistant headgear for overhead exposures.

**GLOVES** – Wear waterproof gloves.

**USER SAFETY RECOMMENDATIONS** – Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside . Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible , wash thoroughly and change in to clean clothing.

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**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES(Technical)**

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**PHYSICAL DESCRIPTION:** Yellow to brown liquid .

**ODOR:** Weak aromatic Odor

**CHEMICAL FORMULA :**  $C_{22}H_{19}Cl_2NO_3$

**MOLECULAR WEIGHT :** 416.3

**MELTING POINT:** 78 –81 °C

**DENSITY:** 1.28(20 °C)

**VAPOR PRESSURE:**  $2.3 \times 10^{-2}$  mPa (20 °C)

**WATER SOLUBILITY:** 0.01 mg/l

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**SECTION 10 – STABILITY AND REACTIVITY**

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**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Not known.

**MATERIALS TO AVOID :** Strong oxidizing agents

**HAZARDOUS POLYMERISATION:** Product will not undergo polymerization.

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**SECTION 11 – TOXICOLOGICAL INFORMATION (Technical )**

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<b>ACUTE TOXICITY:</b> Oral LD <sub>50</sub> (rat,)	– 474 mg/kg body weight
Dermal LD <sub>50</sub> (rat)	- >2000mg/kg body weight
Inhalation LC <sub>50</sub> (rat)	- 0.32 mg/l of air
Eye Irritation (rabbit)	– Mild Irritant
Skin Irritation (rabbit)	– Mild irritant
Sensitization (guinea pig)	– Moderate-sensitiser

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**SECTION 12 – ECOLOGICAL INFORMATION**

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**Environmental Summary –**

Alphacypermethrin is highly toxic to fish and aquatic organisms.

Alphacypermethrin is also toxic to bees.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste** – Dispose of in accordance with applicable Federal, State, local laws and regulations.

**Container** – Do not re-use the container. Dispose of empty containers in a sanitary landfill or incineration so as to avoid environmental or water pollution.

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## SECTION 14 – TRANSPORT INFORMATION

**UN No.** - 3352

**IMDG** - 6219

**Packaging Class and Group** – 6.1 and III

**Label** – Toxic M.P.

**EMS No.**- 6.1-02

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## SECTION 15 - MANUFACTURE'S / SUPPLIER'S DATA

**Name of Firm:** SWAL CORPORATION LIMITED

**Mailing:** UNIPHOS HOUSE, MADHU PARK ,  
KHAR (WEST), MUMBAI-400 52.,  
MAHARASHTRA (INDIA)

Tel. 0091-22 - 2640 1111

Fax 0091-22- 2640 1010

Local Bodies Involved

Collector of Valsad  
Gujarat, India

**Manufacturing Site**

United Phosphorus Limited,  
11,GIDC,  
Vapi Gujrat,- 393002

Tel. 0091 - 0260 – 243276

Fax 0091- 0260 –2431823

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## SECTION 16 - DISCLAIMER

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