

**IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

**MATERIAL SAFETY DATA SHEET****PRIME 900 HERBICIDE**

**Version:** Global  
**Revision No:** 1

**CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** PRIME 900 EC HERBICIDE  
**ACTIVE INGREDIENT:** Acetochlor  
**CHEMICAL FAMILY:** Chloroacetamide  
**MOLECULAR FORMULA:** C<sub>14</sub>H<sub>20</sub>ClNO<sub>2</sub>  
**SYNONYMS:** NA

**MANUFACTURER**

IVORYCHEM PTE LTD  
15 Beach Road, #02-09  
Beach Centre  
Singapore 189677  
Tel: +65 63377765  
Fax: +65 63377730

**Emergency Telephone Numbers:**

**Emergency Phone** [contact@ivorychem.com](mailto:contact@ivorychem.com) (Please refer local label for Emergency Numbers in your region).

**COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Wt. %	IMIS	EC No.	EC Class
Acetochlor	34256-82-1	90	None	None	None
Other ingredients	-	10	None	None	

**HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Light to dark amber liquid with an organic odor. May cause eye and skin irritation. Toxic to aquatic organisms and avian species.

**POTENTIAL HEALTH EFFECTS:** Possible adverse effects

**SKIN:** Prolonged contact may cause moderate skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The LD50 has not been determined. Acetochlor and dichlormid have caused allergic skin sensitization in guinea pigs.

**EYES:** May cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness.

**INGESTION:** Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.



## **IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

The oral LD50 has not been determined. Swallowing may result in gastrointestinal irritation. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Ingestion of large amounts may result in central nervous system depression.

**INHALATION:** Brief exposure (minutes) to easily attainable concentrations may cause adverse effects. The aerosol LC50 has not been determined.

### **FIRST AID MEASURES**

**SKIN:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if Irritation persists. Wash Clothing before reuse. Discard items, which cannot be decontaminated, included leather articles such as shoes, belts, and watchbands.

**EYES:** 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.

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, and then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice. If breathing is difficult oxygen should be administered by qualified personnel.

**Advice to physician:** Due to the solvent present, if small amount of the product is aspirated into the respiratory system during ingestion or from vomiting, bronchopneumonia or pulmonary edema may be caused. No specific antidote. Keep patient under observation and treat symptomatically as indicated by his/her condition.

### **FIRE FIGHTING MEASURES**

**FLASH POINT:** 23°C

**EXTINGUISHING MEDIA:** Water fog, alcohol foam, carbon dioxide, dry chemical or halogenated agents.

**FIRE AND EXPLOSION HAZARDS:** If heated above the flash point, heavy vapors can flow along surfaces to distant ignition sources and flash back. Combustion products are toxic and/or irritant. Inhalation of material could be harmful.

**FIRE FIGHTING EQUIPMENT:** Extinguish fires with carbon dioxide, dry powder, or alcohol resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

### **ACCIDENTAL RELEASE MEASURES**

**EVACUATION PROCEDURES AND SAFETY:** Wear suitable protective clothing and eye protection to prevent skin and eye contact. Absorb small spills with materials such as sand,



## **IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

sawdust, Zorball, or dirt and shovel into an open drum. Wash exposed body areas thoroughly after handling. Do not breathe in fumes.

### **HANDLING AND STORAGE**

**HANDLING PROCEDURES:** Keep out of reach of children. Harmful if swallowed. Avoid contact with eyes and skin. Keep away from food, drink and animal feeding stuffs. Exercise due caution to prevent damage to or leakage of the container. Use with adequate ventilation. Do not handle broken packages without protective equipment. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Seek medical advice. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination. Worker should shower at the end of each work day. Launder all clothing before it is re-used again.

**STORING PROCEDURES:** Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

**WORK/HYGIENIC PROCEDURES:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet. Wash exposed skin promptly to remove accidental splashes of contact with this material.

In addition, based upon the specific hazard of this product. Do not take clothing/objects contaminated by this material off the work site. Shower and change into street clothes before leaving the work site.

### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

**EYE/FACE PROTECTION:** The use of chemical resistant goggles or face shield. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**SKIN PROTECTION:** Skin contact should be prevented through use of suitable protective clothing, gloved and footwear, selected with regard of use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance. May irritate the skin. When preparing dip or spray, using prepared dip or spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves, and face shield. If product on skin, immediately wash area with soap and water. Wash hands before breaks and at end of work.

**RESPIRATOR:** An approved full-face respirator suitable for protection from spray or mists of pesticides is required. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

**PROTECTIVE MATERIAL TYPES:** PVC, rubber



## **IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: contact@ivorychem.com  
Web: www.ivorychem.com  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

**COMMENTS:** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing. Product is poisonous if swallowed.

### **PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Light brown emulsifiable liquid  
**CHEMICAL NAME:** C<sub>14</sub>H<sub>20</sub>ClNO<sub>2</sub>  
**MOLECULAR WEIGHT:** 269.77  
**DECOMPOSITION TEMPERATURE:** NA  
**WATER SOLUBILITY:** Miscible with water. 25 °C is 223mg/L  
**FREEZING POINT:** NA  
**MELTING POINT:** <0 °C  
**BOILING POINT:** >200 °C  
**RESIDUE ON EVAPORATION:** 0.02% max  
**SOLIDIFYING POINT:** NA  
**VAPOR PRESSURE:** >133.3Pa  
**RELATIVE DENSITY:** 1,106 ± 0,05 g/cm<sup>3</sup> at 20 23 °C  
**VISCOSITY:** NA  
**pH:** NA  
**FLASH POINT:** 23 °C  
**PARTITION COEFFICIENT:** NA  
**ADSORPTION COEFFICIENT:** NA

### **STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** Avoid contact with heat, sparks, flames, and incompatible materials.  
**STABILITY:** Considered stable for a period of 2 years under recommended warehouse and light conditions.  
**HAZARDOUS DECOMPOSITION:** Emits toxic and irritant vapours under fire conditions.

### **TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:** Oral LD<sub>50</sub> (rat) >2000 mg/kg  
Dermal LD<sub>50</sub> (rabbit) >5000 mg/kg  
Inhalation LC<sub>50</sub> > 3 mg/L (4h)  
**LOCAL EFFECTS:** Eye: may cause severe irritation and damage to the eyes  
Skin: May cause severe irritation and damage. Cause dermatitis through defatting of tissue  
Sensitization: May cause skin sensitization  
**TERATOGENICITY/DEVELOPMENT:** Acetochlor did not induce either maternal or developmental toxicity in rabbits up to 300 mg/kg/day, the highest dose tested.

### **ECOLOGICAL INFORMATION**

Unless otherwise indicated, the data presented below are for the technical grade of active ingredient.

**ACUTE AND PROLONGED TOXICITY TO FISH:** Rainbow trout



## **IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: contact@ivorychem.com  
Web: www.ivorychem.com  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

LC50: 0.36 mg/l  
Exposure time: 96 h

Bluefill sunfish  
LC50: 1.5 mg/l  
Exposure time: 96 h

### **TOXICITY OTHER NON MAMMAL TERR. SPECIES:**

Mallard duck  
LC50: >5620 mg/kg

Bobwhite quail  
LC50: >1260 mg/kg

Quail  
LC50: >5620 mg/kg  
5 day diet

Daphnia  
LC50: 9 mg/l  
Exposure time: 48h

Bees  
LD50(oral): >100 µg/bee  
LD50: > 200 µg/bee  
Exposure time: 24hr

Earthworms  
LC50 (14 days): 211 mg/kg soil

### **DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

**EMPTY CONTAINER:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

### **TRANSPORT INFORMATION**

**UN NO.:**

1993

**INTERNATIONAL MARITIME ORGANIZATION**

Class: 3

Subsidiary group: 3.2

Packing group: II

Shipping name: Flammable Liquid, N.O.S. (acetochlor 900 g/l)

**IVORYCHEM PTE LIMITED**

15 Beach Road #02-09, Beach Centre  
Singapore 189677  
Tel: +65 – 6337 7765  
Fax: +65 – 6337 7730  
Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

**INTERNATIONAL TRANSPORT ADR/IRD ORGANIZATION**

Class: 3  
Subsidiary group: 3.2  
Packing group: II  
Shipping name: Flammable Liquid, N.O.S., (acetochlor 900 g/l)

**REGULATORY INFORMATION****POISONS SCHEDULE:**

**Symbol:** Xn, N, F

**Indication of danger:** Harmful, Environmentally Hazardous Substance, Flammable substance

**Risk phrases:**

- R 11 Highly flammable.
- R 20/22 Harmful by inhalation and if swallowed.
- R 36/37/38 Irritation to eyes, respiratory system and skin.
- R 40 Limited evidence of a carcinogen.
- R 41 Risk of serious damage to eyes.
- R 43 May cause skin sensitisation by skin contact.
- R 50 Very toxic to aquatic organisms.

**Safety phrases:**

S 1/2 Keep locked up and out of the reach of children.

S 16 Keep away from sources of ignition – No smoking.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

**PACKING AND LABELLING:** Packed in 1, 5, 10, 20, and 25 litre fluorinated plastic containers and labelled according to the respective regions' regulations and guidelines.

**OTHER INFORMATION**

Section(s) Revised : New Format