

## Material Safety Data Sheet

### 1. Chemical Product and Company Identification

Product Name: Acetochlor 900g/l EC

Date: 02.12.2019

Product Description: Herbicide

Chemical Name: 2'-ethyl-6'-methyl-N-(ethoxymethyl)-2-chloroacetylanilide)

Formulated product: Acetochlor 95%, Acetochlor 92% , Acetochlor 90%

Manufacturer:

Shandong Qiaochang Chemical Co., Ltd. №1181 Huanghe 12 Road Binzhou

handing China

### 2. Composition/Information on Ingredients

Chemical Name	Wt, %	CAS No.
Acetochlor	900g/l	[34256-82-1]

Boiling Point: 121°C / 0.001mmHg

Vapour Pressure:  $1.7 \times 10^{-4}$  Pa m<sup>3</sup> mol<sup>-1</sup> (calc.)

### 3. Hazards Identification

Emergency Overview

Physical Appearance: violet oily liquid

Immediate Concerns: Cause eye irritation

Avoid Contact with eyes or clothing, wash thoroughly with soap and water after

handling, keep out of reach of children

#### Potential Health Effects

Eyes: Eye contact may include discomfort, tearing, swelling, redness, and blurred vision. See Toxicology Information, Section 11.

Skin: This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. This product is not expected to cause allergic skin reaction. See Toxicology Information, Section 11.

Ingestion: Ingestion may produce irritation of the digestive tract as demonstrated by signs and symptoms of mouth membrane irritation, nausea, vomiting and diarrhea. See Toxicology Information, Section 11.

Inhalation: Overexposure to spray mist may result in minor irritation of the upper respiratory tract. See Toxicology Information, section 11.

#### 4. First aid measures

##### Skin

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

##### Eyes

In case of contact, immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to

ensure rinsing of the entire surface of the eye and lids with water.

#### Ingestion

If swallowed, wash out mouth with water provided person is conscious. Induce vomiting. Obtain medical attention immediately.

#### Inhalation

Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical personnel.

#### 5. Fire fighting measures

Flash Point: 36°C.

Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry chemical or any class B

Extinguishing agent.

Hazardous combustion Products: This material will not burn.

Fire fighting procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document.

#### 6. Accidental release measures

Steps to be taken in case material is released or spilled:

Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Soak up material with absorbent material and dispose of in accordance

with local regulations. Ventilate area and wash spill site after material pickup is complete.

#### Disposal Method:

Cautiously dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

#### 7. Handling and storage

General Procedures: keep herbicide in original container. Store in secure, preferably locked, storage area. Protect container from freezing.

#### 8. Exposure controls /personal protection

Engineering control: Use this material only in well ventilated areas.

#### Personal Protection

Eye and face: wear chemical safety goggles to prevent eye contact during operations such as mixing or transfer or other activities when there is potential for eye contact. Have eye flushing equipment immediately available with enough fresh water to flush the eyes for at least 15 minutes.

Skin: Although this product does not present a significant skin concern, minimize skin contamination by following good handling practices. Applicators and other handlers must wear long sleeved shirt, long pants, and shoes with socks. Wash hands and contaminated skin thoroughly after handling.

Respiratory: Avoid breathing vapor or mist. This product is not likely to pose an



airborne exposure concern when handled and used in accordance with label instructions.

## 9. Physical and chemical properties

Physical state: oily liquid

Color: wine-red

PH: Negligible

Solubility in water: 223mg/l,(24°C). Slightly dissolves in water

Density: 1.13 (20°C)

Viscosity: N/A

## 10. Stability and Reactivity

Stability

Stable

Hazardous polymerization

Will not occur

Decomposition product

When heated to decompose, emits

Unusual Fire & Explosion Hazards

When heated to decompose, they emit highly toxic fumes.

Incompatibility

Hydrolyzed by strong alkalis and strong mineral acids.



Extinguishing media

Use waterfog, foam, alcohol foam, carbon dioxide and dry chemical

## 11. Toxicological Information

Ingestion: Acute oral LD<sub>50</sub>(rats) : 2148 mg/kg

May be harmful.

Eye contact: Material is a mild irritant to eye. May be harmful if contact.

Skin contact: Dermal LD<sub>50</sub>(rats) : >4166 mg/kg

Material is a mild irritant to skin. May be harmful if contact.

Skin absorption: Harmful if absorbed through skin.

Inhalation: Rats LC<sub>50</sub> (4 hrs): >3.0 mg/L.

## 12. Ecological information

1. effect on pest for which control claimed: Acetochlor is a preseedling herbicide, it is principally used for control weeds of some one year grass family and nutgrass flatsedge family as well as some weeds of broadleaf in rice field.

2. materials or premises to be protected: It also can be used in seedbed, seed transplant field as well as in some crops field such as wheat, barley, beet, cotton, rape, vegetables and peanut etc. Usually take surface treatment of the pre-sprout soil, apply in paddy field after seeding.

3. spray dilution for each site/pest listed: The effective dose is 1.0-4.5kgAI/ha. The active of kill weed is something to do with moisture of soil.

4. Frequency and timing of application

for each site/pest listed: One time in general.

5. Metabolism and translocational studies.

Acetochlor causes stomach tumors in rats, Butachlor is metabolized to CDEPA to a much greater extent by rat liver microsomes (0.045 nmol/min/mg) than by human liver microsomes (< 0.001nmol/min/mg). This metabolite has been shown to localize and accumulate selectively in rat nasal tissue but not in the nasal tissues of other species. This metabolite forms protein adducts, which leads to cytotoxicity, prolonged cell proliferation and the eventual development of the predominantly benign, microscopic nasal tumors observed. Mechanistic studies with butachlor have shown that high dose exposure leads to mucosal atrophy with an accompanying profound loss of parietal cells as the initial lesion.

13. Disposal considerations

For large spills: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures.

Product disposal: Securely wrap partially filled or empty container in several layers of newspaper and discard in trash.

Empty container: Do not reuse container. Rinse thoroughly before discarding in trash.

#### 14. Transport information

Dot (Department of Transportation)

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S

Primary Hazard Class/Division: 3

UN/NA Number: 1993

U.S, Surface Freight Class: Tree of weed killing compounds.

Air (ICAO/IATA)

Proper Shipping Name: Not regulated

Special shipping notes: The description shown may not apply to all shipping situation. Appropriate Dangerous Goods regulations, for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

#### 15. Regulatory information

The transport and usage should obey Chinese law and the law and regulatory of the Buyers country state.

#### 16. Other Information

Precaution to be taken: Keep tightly closed. Keep away from strong bases and strong acid. Keep out of reach of children. Store away from food and feed stuffs.

Shandong Qiaochang Chemical Co., Ltd

