



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

CHANGZHOU BOOMING CROP SCIENCE CO.,LTD

NO.2, BUILDING 53,HUNDSUN SCIENCE &TECHNOLOGY PARK,BEITANGHE
ROAD,TIANNING DISTRICT, CHANGZHOU, JIANGSU, CHINA

Phone: 86-519-68208602

Fax: 86-519-85851009

1. CHEMICAL INFORMATION

Product Name: Butachlor 93TC

EPA Registration No: 55146-53

EPA Signal Word: Caution

CAS No.:23184-66-9

Chemical Class: herbicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material: Butachlor 93%TC

Content %: 93%

Components not precisely identified are proprietary or not hazardous.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This material is an eye irritant. Target organs include eyes and respiratory system.

POTENTIAL HEALTH EFFECTS

Eye Irritation: moderately to severely irritating to the eyes. May cause eye irritation.

4. FIRST AID MEASURES

Inhalation: Remove victim to the fresh air, give artificial respiration, preferable mouth to mouth. Get medical attention.

Eye contact: Hold eyelid open and flush with water for 15 to 20 minutes until no evidence of chemical remains. Get professional medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty soap and water for 15-20 minutes until no evidence of chemical remains. Get professional medical attention.

Ingestion: immediately give 2 glasses of water. Never give anything to an unconscious person. Get professional medical attention.

5. FIRE FIGHTING MEASURES

Flash point and Method: Not applicable

Flammable Limits: Not applicable

Autoignition Temperature: Not applicable

FIRST FIGHTING HAZARDS & PROCEDURES

General Hazard: None Determined

Extinguishing Media: Use dry chemical, carbon dioxide, water spray or foam. No incompatible fire fighting media known.

Fire Fighting Equipment: wear full protective clothing and self-contained breathing



apparatus with full face piece.

Hazardous Combustion Products: Not known.

6. ACCIDENTAL RELEASE MEASURES

Land spill: Sweep up product and place in appropriate container for disposal. Avoid dust. Ventilate spill area.

7. HANDLING AND STORAGE

General Information: Keep in closed or covered containers when not in use. Store in cool, dry, and well ventilated area. Do not store or consume food, drink or to areas where they may become contaminated with this material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MANUFACTURING, COMMERCIAL BLENDING & PACKING WORKERS

Following label instruction when handling this products.

Ventilation: local exhaust to control dust at its source.

Respiratory Protection: A NIOSH/MSMA approved respirator with organic vapor canister or self-contained breathing apparatus is recommended.

Eye protection: Wear chemical splash goggles in compliance with OSHA regulation.

Protective Clothing: Wear Protective gloves such as butyl or nitrile rubber.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Not applicable

Density: 0.692

Solubility in Water: completely soluble

PH: not established

Melting point: 235°C

Viscosity: Not applicable

Odor: none detected

Color: colorless

Physical state: liquid

10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY

General: This material is stable under normal conditions. Avoid excessive heat.

Incompatible Materials: Not determined

Conditions to avoid: not determined

Hazardous Decomposition: Not determined.

Hazardous Polymerization: Material is not known to polymerize

11. TOXICOLOGICAL INFORMATION

ACUTE

Inhalation:

Acute inhalation LC50 (4Hr Dust) ->0.502 mg/L

Rats-Male and Female

Eye irritation:

produces moderate to severe conjunctival irritation, reversible in 7 days, was found in



eye irritation tests in rabbits with Ametinannong.

Skin irritation:

Not considered to be a skin irritant or sensitizer.

Guinea Pig Sensitization-none sensitizer

Ingestion: Oral LD50 (rats): Male>5000mg/kg, Female>5000mg/kg

CHRONIC:

Special health effects:

Primary eye irritation (Rabbits)-Sight irritant primary skin irritation (rabbit)-non-irritating. Primary routes or entry inhalation.

Butachlor 60EC is a growth hormone that has been reported to have estrogenic and androgenic activity in animals. In reproduction studied in rats, no maternal or fetal to adverse effects to the fetus were noted following large dosages (1000mg/kg/day) of butachlor 60EC. The primary component is a central nervous system depressant. Repeated exposure at high concentrations (2.5% or greater in drinking water) produced a variety of reproductive, fertility, and developmental effects in rats.

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATION

Comply with appropriate disposal regulations. Landfill solids at permitted sites. Use registered transporters. Do not flush to surface water to sanitary sewer systems.

14. TRANSPORT INFORMATION

International Marine Organization (IMO): Not registered

HAZARD CLASSIFICATION (0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe)

NEPA: HEALTH-1, FIRE-0, REACTIVITY-0

HNIS: HEALTH-1, FIRE-0, REACTIVITY-0

Note: Inhalation data generated using a similar particle size than is reasonably foreseeable to be encountered by a human during transport. Since a mist is not likely to be generated in a leakage of the transport containment, this material is not regulated for transport per DOT 49 CFR173.132(b)(3), IATA 3.6.3.3, IMOIV/6.1/2.2.3, RID/ADR 2006/2.5.

15. REGULATORY INFORMATION

OSHA: This product is not considered hazardous under the OSHA Hazardous Communication Standard 29 CFR 1910.1200.

TSCA: All product components are on the TSCA Chemical Inventory and should be considered for experimental use only.

CERCLA: Releases of the material to air, land, or water are not reportable to the National Response Center under the comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the superfund Amendments and Reauthorization Act (SARA) Title III section 304 and 40 CFR Part 304.

RCRA: When a decision is made to discard this material as supplied, it does not meet



RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33

SARA TITLE III

311/312 Hazard Categories: This product has been reviewed according to the EPA "Hazard Categories" and is categorized as an acute health hazard(40CFR 370.41).

313 Reportable Ingredients: This product does not contain any materials listed in Section 313 above of the superfund Amendments and Reauthorization Act of 1986 or 40 CFR Part 372.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.