

MATERIAL SAFETY DATA SHEET

PRODUCT : PRETILACHLOR 37% EW

PRODUCT DESIGNATION : Herbicide

Section 1. Product & Company Identification

Common Name : Pretilachlor
Grade : Formulation
Active Ingredient : Pretilachlor
Chemical Name of Active : 2-chloro-N-(2,6-diethylphenyl)-N-(2-propoxyethyl)
Ingredient (IUPAC) : acetanilide
Chemical Family of A. I. : Chloroacetanilides
Molecular Formula of A. I. : C₁₇H₂₆ClNO₂
Molecular Mass of A. I. : 311.9g/mol
Manufacturer & Supplier : **M/s United Chemicals**
Head office:B-371, 1st Floor, Meera Bagh, New Delhi,
Factory:15/1, 15/2, 15/3, Industrial Estate, Vidisha,
(M.P)
Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

<u>Name of Components</u>	<u>Concentration% w/w</u>
Pretilachlor a.i	37.00% w/w
Inert ingredient	63.00% w/w
TOTAL	100.00% w/w

Section 3. Hazards Identification

Health Hazards: Harmful: may cause lung damage if swallowed. Irritating to skin and eyes.
May cause sensitization by skin contact. Environmental hazard in case of accident
(Spillage/Leakage): Toxic to fish.

Section 4. First Aid Measures

If in Eyes : Flush immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

If in Skin : Wash thoroughly with soap and water. Remove contaminated clothing and shoes and launder.

If Inhaled : Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If Swallowed : Offer a glass of water or milk to drink. Call a physician or poison control center. Do not induce vomiting unless directed.

Antidote: There is no specific antidote. Treat symptomatically.

Section 5. Fire Fighting Measures

Specific Hazard : There is no risk of an explosion from this product under normal circumstances if involved in a fire.

Extinguishing Media : Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. DO NOT use a solid water stream as it may scatter and spread fire. Large fires: Use alcohol-resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire.

Hazard From Combustion products : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion . Exposure to decomposition products may be a hazard to health.

Protective equipment : Wear full protective clothing and self-contained breathing apparatus.

Section 6. Accidental Release Measures

In Case of Emergency : In case of spillage it is important to take all steps necessary to

- Avoid eye and skin contact
- Avoid contamination of waterways Wear full length clothing and PVC gloves, Keep all bystanders away.

Clean up Procedures : Procedure for spill

- (1) Keep all bystanders away
- (2) Wear full length clothing and PVC gloves

- (3) Reposition any leaking containers so as to minimise further leakage
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil)
- (5) Shovel the absorbed spill into drums
- (6) Disposal of the absorbed material will depend upon the extent of the spill
 - For quantities up to 50 L of product bury in a secure landfill site
 - For quantities greater than 50 L seek advice from the Manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

Section 7. Handling & Storage

Handling: 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 usually taken in chemical works like splash proof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Storage: Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

Section 8. Exposure Control, Personal Protection

Engineering Controls : In the Workplace: ensure ventilation is adequate and that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special requirements. Product is used outdoors.

Ingestion : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product.

Eye Protection : Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eye wash should be easily available.

Skin Protection : Chemical resistant gloves, coveralls socks, apron and chemical resistant foot covering should always be used while handling the product.

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General Protection : Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Section 9. Physical and Chemical Properties

Appearance / state	: Yellow to brown liquid
Colour	: Yellow to brown
Odour	: Faint, sweet odour
ph	: 3-5.5
Solubility	: In water 20 mg/l (20 °C)
Vapour pressure	: 0.133mPa (20°C)

Section 10. Stability & Reactivity

Chemical Stability : Stable under normal use and storage conditions

Conditions to Avoid : See "Unusual Fire, Explosion and Reactivity Hazards" statement,

Incompatible Materials : Strong bases, Strong acids, Strong oxidizing agents

Hazardous decomposition products : Can decompose at high temperatures forming toxic gases.

Hazardous Reactions : No polymerization will occur.

Section 11. Toxicological Information

Acute Oral Toxicity : LD₅₀ for rats : >5508mg/kg

Acute Dermal Toxicity : LD₅₀ for rats : >2000 mg /kg

Acute Inhalation : LC₅₀ (4h) rats : >2.90mg/l

Eye Irritation : Non Irritating to Eyes

Skin Irritant : (Rabbit)Non irritating

Skin sensitization : Not a skin sensitizer

Section 12. Ecological Information

Birds Acute oral LD₅₀ for Bobwhite Quail LC₅₀(8d):6597 mg/kg diet.

and Mallard Ducks >4640 mg/kg

Fish LC₅₀ (96h) for Rainbow trout 052 mg/l

Daphnia magna : LC₅₀: 13 mg/l

Bee LD₅₀ (oral and contact): >100µg/bee

Section 13. Disposal Consideration

Product Disposal:

Dispose of this product only by using according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

Container disposal:

- (1) Rinse containers before disposal. Add rinsing's to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (2) Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Section 14. Transport Information

IMDG Classification

Shipping name : Environmentally Hazardous Substance, Liquid, N.O.S
(pretilachlor)

Class : 6.1

Packing group : III

UN number : 3082

Marine pollutant : Yes

Section 15. Regulatory Information

Special Risks (R-Phrases)

R36/38 : Irritating to eyes and skin

R42 : May cause sensitization by skin contact

Safety Advice (S- Phrases)

S2 : Keep out of the reach of children

S13 : Keep away from food, drink and animal feeding stuffs

S20/21 : When using do not eat, drink or smoke

S37 : When using do not eat, drink or smoke

Section 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

Safety Division : UNITED CHEMICALS, SAFETY DIVISION