

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	:	Butachlor Technical
Common Name	:	Butachlor
IUPAC Name	:	N-butoxymethyl-2-chloro-2',6'-diethylacetanilide
Chemical Abstracts Name	:	N-(butoxymethyl)-2-chloro-N-(2,6- diethylphenyl)acetamide
CAS No.	:	23184-66-9
Chemical formula	:	C ₁₇ H ₂₆ ClNO ₂
Molecular weight	:	311.9
Chemical Family	:	Chloroacetamide
Use	:	Herbicide
Company Name	:	HPM Chemicals & Fertilizers Ltd.
Address	:	209-210, Anupam Bhawan, Azadpur Commercial Complex, Azadpur, Delhi- 110033
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Website	:	www.hpmindia.com
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Content % (w/w)
Butachlor	23184-66-9	92.00
Others		08.00



3. HAZARDS IDENTIFICATION

Health Hazards	: EMERGENCY OVERVIEW - This product is an herbicide with low oral and dermal toxicity. Dermal irritation and allergic dermatitis may be seen in susceptible individuals following exposure to mist.
Emergency	Inhalation may lead to irritation of respiratory tract.Warning! Keep out of reach of children. Toxic if swallowed and by inhalation.
Skin and Eyes	: Avoid contact with skin and eyes.
Entry route	: Ingestion, Inhalation, Contact with eye or skin.
Symptoms of poisoning	: Symptoms of poisoning would probably include
	nausea, vomiting, dizziness.
	4. FIRST AID MEASURES
Ingestion	: DO NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and seek medical advice.
Eye	: Immediately flush eyes with running water until product is removed. Seek medical advice if irritation persists.
Skin	Remove contaminated clothing. Wash thoroughly under running water using a mild soap to remove all products. Seek medical advice if irritation, reddening and/or other damage occurs.
Inhalation	: Remove victim from exposure. Keep at rest until fully
Advice to Physician	recovered. Seek medical advice if effects persist.No specific Antidote. Treat symptomatically.
	5. FIRE FIGHTING MEASURES
Specific Hazard	: Do not cut, drill, grind or weld on or near this container.
Extinguishing Media	: Extinguish fire using media suited to burning material.

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	If containers are ruptured contain all runoff. CO2,
	Foam or dry chemical are preferred. Soft stream water
	fog or fine water sprays if no alternatives. Contain all runoff.
Hazard From :	If involved in a fire, it will emit toxic and noxious
Combustion products	fumes of oxides of carbon, nitrogen or sulfur.
	Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure
	to vapor or smoke.
Protective equipment :	Wear full protective clothing and self-contained
	breathing apparatus. Do not breathe or contact smoke,
	gases or vapors generated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency Clean up Procedures	:	Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist, washable hat, elbow- length PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per regulations. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
	7	. HANDLING AND STORAGE
Handling	:	Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and

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elbow-length PVC gloves.

Storage : DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
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.
Respiratory protection	:	Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	:	Light yellow to purple
Odour	:	Faint sweet odor
Physical state	:	Liquid
Melting Point	:	-2.8 °C – 1.7 °C
Boiling Point	:	156 °C/0.5 mmHg
Solubility	:	In water 20 mg/l (20°C). Soluble in most organic

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solvents, including diethyl ether, acetone, benzene, ethanol, ethyl acetate and hexane.

10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable under normal conditions.
Conditions to Avoid	:	Avoid direct sunlight.
Incompatible Materials	:	Strong oxidizing agents, bases, chlorates, nitrates.
Hazardous	:	When heated to decompose it emits toxic fumes of
decomposition products		bromide ion, cyanide ion, nitrogen oxides. Hazardous
		Decomposition Products: Carbon monoxide.
Hazardous Reactions	:	No polymerization will occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD ₅₀ Acute Dermal LD ₅₀ Acute Inhalation LC ₅₀ Skin Irritation Eye Irritation	 2000 mg/kg body weight (Rat) >13 000 mg/kg body weight (Rabbit) >3.34 mg/l (4 h) (rat) Moderate skin Irritant (Rabbit) Practically non- irritating to eyes 			
Skin Sensitization	(Rabbit)Contact sensitization reaction observed in guinea pigs			
12. ECOLOGICAL INFORMATION				
Bird	: Acute oral LD ₅₀ for mallard ducks >4640 mg/kg			
Fish	: LC_{50} (96 h) for rainbow trout 0.52 mg/l			
Daphnia Bees	: $LC_{50} (48 h) 2.4 mg/l$: $LD_{50} (oral) >90 \mu g/bee$			

13. DISPOSAL CONSIDERATIONS

Disposal : This material must be disposed of as a Hazardous Waste. Disposal should be in accordance with local, nation or state

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rule and regulations.

Disposal of : Break, crush, or puncture and deliver empty packaging for empty appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION

Shipping Name	:	Environmentally Hazardous Substance, Liquid, N.O.S.
UN No.	:	3082
Class	:	9
Packing group	:	III
Marine	:	No
pollutant		

15. REGULATORY INFORMATION

Risk Phrase	R10 Flammable						
Safety	S2 Keep out of the reach of children.						
phrase	S20 When using, do not eat or drink						
	S25 Avoid contact with eyes.						
	S26 In case of contact with eyes, rinse immediately with plenty of						
	water and seek medical advice.						
	S60 This material and its container must be disposed of as hazardous						
	waste.						
	S61 Avoid release to the environment. Refer to special						
	instructions/safety data sheets.						

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 resented 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 on 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 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. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

Date: 11/01/2016
