



**MATERIAL SAFETY DATA SHEET ATTACK:
BIFENTHRIN 10% EC**

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND SUPPLIER

PRODUCT NAME	:	ATTACK
TECHNICAL NAME	:	Bifenthrin 10% EC
CHEMICAL GROUP	:	Synthetic Pyrethroids
RECOMMENDED USE	:	A liquid insecticide for agriculture use & Termites control in Sugarcane fields.
FORMULATION	:	Emulsifiable Concentrate
CORPORATE ADDRESS	:	Arbuda Agrochemicals Limited 1104, Ruby Crescent Business Boulevard, Ashok Chakravarti Road, Kandivali-East, Mumbai-400101, Maharashtra, India Customer Care No- +91 9076 9076 42 Email - info@arbudaagrochemicals.com
MANUFACTURER ADDRESS	:	Arbuda Agrochemicals Limited Plot No-279-283, GIDC, Taluka –Talod , District-Sabarkantha, Gujarat – 383215.

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient Name	CAS NO.	Percentage
Bifenthrin a.i.	82657-04-3	10.00 % w/w
Emulsifier-Blend of Calcium alkyl benzene sulphonate		10.00 % w/w
alkoxy alkyl ether and alkoxyalkyl aryl ether		
Solvent- C9		QS % w/w
	Total	100.00 % w/w

3. HAZARDS IDENTIFICATION

Emergency Overview Caution

Yellowish liquid with mild characteristic odor. Thermal decomposition and burning may form toxic byproducts. For larger exposures or fire, wear personal protective equipment. Highly toxic to fish and aquatic organisms. Keep away from drains and water sources.

Potential Health Effects

Effects from overexposure may result from swallowing, inhaling or coming in to contact the skin or eyes. Symptoms of overexposure include bleeding from the nose, tremors, and convulsions. Contact with skin occasionally produces skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

4. FIRST AID MEASURES

- Eyes** Wash eyes with plenty of water. If irritation continues, call a doctor.
- Skin** Wash skin with plenty of soap and water.
- Ingestion** Drink 1 or 2 glasses water and induce vomiting by touching the back of throat with a finger or by giving syrup of ipecac. Immediately contact physician, Poison Control or an emergency centre before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person
- Antidote** As there is no specific Antidote is known. Advice to give symptomatic treatment as per symptoms and cause.

5. FIRE-FIGHTING MEASURES

- Flash Point** ->100 °C (TCC)
- Extinguishing Media** Foam, CO₂ or dry chemical. Soft stream of water fog only if needed.
- Special Exposure Hazards** Slightly combustible. Material may not support combustion at elevated temperatures.
- Fire Fighting Equipment** Isolate fire area. Evacuate down wind. Wear self-contained breathing apparatus pressure and protective gears. Do not smoke gasses or vapour generated.
- Hazardous Combustion Products** Carbon dioxide, Carbon Monoxide, Chlorine, Fluorine, Hydrogen chloride and Hydrogen fluoride.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions. Isolate hazard area

Keep unnecessary and unprotected personnel from entering.

Vacuum or sweep up material and place in properly labeled disposal container.

Dike to confine spill and absorb with non – combustible absorbent like clay, sand or soil.

Vacuum shovel or pump waste into drum and label contents for disposal.

Large spills may be neutralized with dilute solutions of soda ash or with appropriate alcohol.

After removal, flush the contaminated area thoroughly with water.

Do not allow any material to run off in soil, drainage systems or bodies of water.

Notify and consult with proper regulatory authorities.

7. HANDLING AND STORAGE

Precautions in Handling / Storage:

It is recommended to avoid physical contact with the product and to have adequate ventilation.

Avoid spillage into the eyes, or contact with bare skin or clothing.

Avoid inhaling vapours, mist. Wash hands, feet, face thoroughly after handling.

Remove contaminated clothing immediately.

Handling Precautions: Avoid damage to containers. Do not handle damaged or leaking containers without protective equipment. Wash thoroughly after handling and before eating or smoking.

Storing Precautions: Store in a cool, safe, place away from feed or food-stuffs. Keep storage area free from ignition sources. KEEP AWAY FROM CHILDRENS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control

Used local exhaust ventilation at all processes locations where vapor or mist may be emitted.

Ventilate all transport vehicles prior to unloading.

Eye and ace Protection - Safety goggles or face shield.

Clothing - Long sleeved shirt and long pants, shoes plus socks, chemical resistant headgear for overhead exposures.

Gloves - Wear waterproof gloves

User Safety Recommendations

Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

As soon as possible, wash thoroughly and change in to clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	:	Liquid
ODOR	:	Mild characteristic odor
MOLECULAR WEIGHT	:	422.9
MELTING/FREEZING POINT	:	68 –71 °C.
CHEMICAL FORMULA	:	C ₂₃ H ₂₂ ClF ₂
WATER SOLUBILITY	:	0.15 mg/l (20° C)
VAPOR PRESSURE	:	N/A
VAPOR DENSITY	:	0.567 g/ml

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	stable
HAZARDOUS POLYMERIZE	The product will not undergo polymerization.
CONDITIONS TO AVOID	Excessive heat and fire.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral LD 50 (rat,)	74.90mg/kg body weight
Dermal LD 50 (rat)	>2000mg/kg body weight
Inhalation LC 50 (rat)	> 3.191 mg/l of air
Eye Irritation (rabbit)	Irritating
Skin Irritation (rabbit)	Slight irritant
Sensitization (guinea pig)	Weak-sensitizer



12. ECOLOGICAL INFORMATION

Environmental Summary

This pesticide is slightly toxic to waterfowl and upland game birds. Bifenthrin is highly toxic to fish. Bifenthrin is also toxic to bees

13. DISPOSAL CONSIDERATION

Waste disposal methods

Improper disposal of excess pesticide, spray mixture, or rinse is prohibited. If these wastes can not be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated packaging

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT

This material is a Combustible liquid and is, therefore, not subject to the hazardous materials regulations when in non-bulk packages shipped within the USA per 49 CFR §173.150(f)(2).

Packaging Type

Bulk

Proper shipping name

Combustible liquid, n.o.s.

UN/ID No

NA1993

Packing group

III

Description

NA1993, Combustible liquid, n.o.s. (Aromatic hydrocarbons), PG III

TDG

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.

Hazard Class

9

UN/ID No

UN3082

Packing group

III

Marine pollutant

Bifenthrin

Description

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin, aromatic hydrocarbons), 9, PG III, Marine Pollutant.

ICAO/IATA

UN/ID No

UN3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.

Hazard Class

9

Packing group

III

Marine pollutant

Bifenthrin

Description

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin, aromatic hydrocarbons), 9, PG III, Marine Pollutant.

**IMDG/IMO**

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing group	III
Marine pollutant	Bifenthrin
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin, aromatic hydrocarbons), 9,PG III, Marine Pollutant.
EmS No.	F-A, S-F

15. REGULATORY INFORMATION**U.S. Federal Regulations**

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values%
Bifenthrin	82657-04-3	10	1.0

16. OTHER INFORMATION

MSDS PREPARATION DATE	01.04.2025
REVISION DATE	31.03.2027

The information contained in this material safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to Date information. The information given in this data sheet does not constitute or replace the user's own assessment or work risk as required by other health and Safety legislation.