 PJ Margo Pvt. Ltd.	MATERIAL SAFETY DATA SHEET	MSDS No.:	PJM/FP/MSDS/N-05
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MATERIAL:	AZADIRACHTIN 20,000 ppm (2%) EC : Botanical Insecticide		

PJ MARGO PRIVATE LIMITED
NO: 344/8, IV MAIN
SADASHIVANAGAR
BANGALORE-560 080
TEL: 080-23613051 - 3

1. CHEMICAL PRODUCT INFORMATION :

PRODUCT NAME : AZADIRACHTIN 20,000 ppm (2%) EC
 CHEMICAL FAMILY : BOTANICAL INSECTICIDE
 CHEMICAL NAME : AZADIRACHTIN

2. COMPOSITON/INFORMATION OF INGREDIENTS :

COMPONENTS	CAS NO.	WT%	OSHA PEL	TLV's TWA	STEL
Azadirachtin	11141-17-6	2.0			
Other Limonoids		12.0	--	--	--
Neem Oil	8002-65-1	15.0	--	--	--
Emulsifier (Polyoxyethylene sorbitan trioleate)	9005-70-3	25.0			
Normal Butanol	71-36-3	Q.S. to make	--	--	--
TOTAL		100.0			

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW


This product is a dark brown liquid with a characteristic odor, which is intended for use as a botanical pesticide. There is no specific antidote if this product is ingested. Treat symptomatically. If a large amount has been ingested, give plenty of water to drink and seek medical attention.

POTENTIAL HEALTH EFFECTS : None
 ROUTE(S) OF ENTRY : Eyes, skin, oral, inhalation.
 HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE : May cause irritation of eyes, skin or respiratory tract.
 ACUTE EYE CONTACT : Cause mild eye irritation.
 CHRONIC EYE CONTACT : Chronic exposure not likely from normal use.
 ACUTE SKIN CONTACT : Slightly irritating. May cause irritation.
 CHRONIC INGESTION : Chronic exposure not likely from normal use.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE : Not known.

4. FIRST AID MEASURES :

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Centre, tell the person contacted the complete product name and the type and amount of exposure. Describe any symptoms and follow the advice given.

FIRST AID FOR EYES : Immediately rinse eyes with a lot of water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
 FIRST AID FOR SKIN : Wash with plenty of soap and water, including hair, and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate place affected.

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FIRST AID FOR INHALATION : Move victim from contaminated area to fresh air.
Apply artificial respiration, if necessary.

FIRST AID FOR INGESTION : If victim is fully conscious, immediately give large quantities of water to drink and get medical help. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES :

EXTINGUISHING MEDIA : Dry chemical, foam, or carbon di oxide

UNUSUAL FIRE AND EXPLOSION HAZARDS : None known.

SPECIAL FIRE FIGHTING PROCEDURES : Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES :

SPILL OR LEAK PROCEDURES : Wear chemical safety glasses with side shields or chemical Goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering and a NIOSH-approved dust or pesticide respirator with a dust filter. For small spills, sweep up, keeping dust to a minimum and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with absorbent material. Seal the container & handle in an approved manner.

7. HANDLING AND STORAGE :

STORAGE TEMPERATURE (MIN./MAX.) : Room temperature.

SHELF LIFE : Stable
SPECIAL SENSITIVITY : None known.

HANDLING AND STORAGE PRECAUTIONS : Store the material in a well ventilated secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Always wash thoroughly after handling.


8. EXPOSURE CONTROLS/ PERSONAL PROTECTION :

ORAL PROTECTION REQUIREMENTS : Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

EYE PROTECTION EQUIPMENTS: To avoid eye contact, wear safety goggles.

SKIN PROTECTION REQUIREMENTS : To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants & head covering.

RESPIRATORY/VENTILATION REQUIREMENTS : To avoid breathing dust, use with adequate ventilation and wear a NIOSH-approved dust or pesticide Respirator with a dust filter.

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9. PHYSICAL AND CHEMICAL PROPERTIES :

PHYSICAL FORM	: Liquid
COLOUR	: Clear brown
ODOUR	: Characteristic
BOILING POINT	: > 110°C
FLASH POINT	: > 35°C
pH (1% SOLUTION)	: 6.0 to 6.5
SOLUBILITY IN WATER	: Soluble
SPECIFIC GRAVITY	: 0.92 to 0.94
ACIDITY	: < 0.50%
AFLATOXIN CONTENT	: Not detectable
MOISTURE	: < 2.0%
CORROSION	: Nil

10. STABILITY AND REACTIVITY :

STABILITY	: Stable
HAZARDOUS POLYMERIZATION	: Will not occur.
INCOMPATIBILITIES	: Not compatible with highly alkaline substances.
DECOMPOSITION	: Easily biodegradable.

11. TOXICOLOGICAL INFORMATION :

Acute oral toxicity (Rat)	: > 4340 mg/kg body weight (Physically non-toxic)
Acute oral toxicity (Mice)	: > 4340 mg/kg body weight (Slightly toxic)
Acute dermal toxicity (Rat)	: > 1000 mg/kg
Eye Contact (Rabbit)	: Slightly irritating
Skin Contact (Rabbit)	: Slightly irritating

12. ECOLOGICAL INFORMATION :

Totally biodegradable in nature.
Do not apply on water bodies.

13. DISPOSAL CONSIDERATIONS :

WASTE DISPOSAL METHOD : Do not reuse product containers, waste containers and residues according to local, state and federal health and environmental regulations.

14. TRANSPORT INFORMATION:

DOT hazard class : Not applicable

15. REGULATORY INFORMATION:

OSHA status	: N/A
TSCA status	: N/A
CERCLA reportable quantity	: N/A
RCRA status	: N/A

16. OTHER INFORMATION:

N/A – Not applicable

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This product is for agricultural use only.