

 PJ Margo Pvt. Ltd.	MATERIAL SAFETY DATA SHEET	MSDS No.:	PJM/FP/MSDS/N-03
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MATERIAL:		EXTRACTS OF NEEM CONTAINING AZADIRACHTIN	

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION :

PRODUCT NAME : EXTRACTS OF NEEM CONTAINING AZADIRACHTIN
 CHEMICAL FAMILY : TETRANORTRITERPENOID
 CHEMICAL NAME : AZADIRACHTIN
 CHEMICAL FORMULA : C₃₅ H₄₄ O₁₆

2. COMPOSITON/INFORMATION OF INGREDIENTS :

COMPONENTS	CAS NO.	WT%	OSHA PEL	TLV's TWA	STEL
Azadirachtin	11141-17-6	13 - 25	--	--	--
Other neem components	--	75 - 87	--	--	--
Moisture	--	1 - 3	--	--	--

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a dark brown to pale yellow with characteristic odor, which is intended for preparation of Azadirachtin based formulations. 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, and 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 finger nails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and de-contaminate place affected.
FIRST AID FOR INHALATION : Move victim from contaminated area to fresh air. Apply artificial respiration, if necessary.

**MATERIAL:**

EXTRACTS OF NEEM CONTAINING AZADIRACHTIN

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 dioxide.

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 and handle in an approved manner.

7. HANDLING AND STORAGE:STORAGE TEMPERATURE
(MIN./MAX.)

: Below 5°C

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	: Powder
COLOUR	: Dark brown to pale yellow
ODOUR	: Neem Characteristic odor
MELTING POINT	: 103°C
FLASH POINT (above 24.5°C)	: No fire hazard
pH	: 4.0
SOLUBILITY	: Soluble in water, alcohol, kerosene and acetates.
SPECIFIC TAP DENSITY	: 0.400 – 0.600 gm / cc

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 (LD ₅₀ RAT)	: > 6.6 g/kg body weight
ACUTE ORAL TOXICITY (LD ₅₀ MICE)	: > 10.0 g/kg body weight
ACUTE DERMAL TOXICITY (LD ₅₀ RAT)	: > 5.0 g/kg
ACUTE INHALATION (RAT)	: Mild irritant
EYE CONTACT (RABBIT)	: Irritant and reversible in 12 days.
SKIN CONTACT (RABBIT)	: Index is 1.287 (No irritation)

12. ECOLOGICAL INFORMATION : : Totally biodegradable in nature. Do not apply on water bodies.

13. DISPOSAL CONSIDERATION : Do not reuse product packing materials and residues. Dispose the product packing materials and residues according to local state and federal health and environmental regulations.

14. TRANSPORT INFORMATION

D.O.T. PROPER SHIPPING NAME	: Not applicable
TECHNICAL SHIPPING NAME	: Extracts of Neem Containing Azadirachtin.
D.O.T. HAZARD CLASS	: Non hazardous.

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

To the best of our knowledge, the information contained herein is accurate. However, neither PJ Margo nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

This product is for agricultural use only.