



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name : Neem Seed Kernel Based EC Containing Azadirachtin- 1% (10000 ppm) min.

Common Name : Azadirachtin- 1% (10000 ppm) min.

IUPAC Name : dimethyl (1*S*,4*S*,5*R*,6*S*,7*S*,8*R*,11*S*,12*R*,14*S*,15*R*)-12-acetyloxy-4,7-dihydroxy-6-[(1*R*,2*S*,6*S*,8*R*,9*R*,11*S*)-2-hydroxy-11-methyl-5,7,10-trioxatetracyclo[6.3.1.0^{2,6}.0^{9,11}]dodec-3-en-9-yl]-6-methyl-14-[(*E*)-2-methylbut-2-enoyl]oxy-3,9-dioxatetracyclo[6.6.1.0^{1,5}.0^{11,15}]pentadecane-4,11-dicarboxylate

Chemical Abstracts Name : Neem Seed Kernel Based EC Containing Azadirachtin- 1% (10000 ppm) min.

CAS No. : 11141-17-6

Chemical formula : $C_{35}H_{44}O_{16}$

Molecular weight : 720.7

Use : Insecticide

Company Name : HPM Chemicals & Fertilizers Ltd.

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2. COMPOSITION / INFORMATION ON INGREDIENTS



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Chemical Name	CAS No.	Content % (w/w)
Azadirachtin- 1% (10000 ppm) min.	[11141-17-6]	1% (10000 ppm)

3. HAZARDS IDENTIFICATION

- Health Hazards** : When Azadirachtin- 1% gets on the skin, it can cause skin sensations like tingling, itching, burning, or numbness at that spot. These sensations usually go away within 48 hours. Azadirachtin- 1% can be mildly irritating if it gets in the eye.
- Emergency** : Warning! Keep out of reach of children. Toxic if swallowed and inhaled. Contact can cause eye or skin irritation.
- Skin and Eyes** : Avoid contact with mouth, skin and eyes.
- Entry route** : Ingestion, Inhalation, Contact with eye or skin.
- Symptoms of poisoning** : Nasal discharge, Itching, Vomiting, eyes redness, anxiety and convulsions.

4. FIRST AID MEASURES

- Ingestion** : If swallowed, rinse mouth with water, and give one or two glasses of water to drink. Keep patient at rest and get medical attention. Do not induce vomiting.
- Eye** : Flush eyes with plenty of water at least 15 minutes. Get medical attention immediately.
- Skin** : Remove contaminated clothing. Wash with large quantities of water and soap. If irritation persists, get medical attention.
- Inhalation** : Remove individual to fresh air. Get medical attention if ill effect occur.
- Advice to Physician** : No specific Antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES



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- Specific Hazard** : This product may emit toxic fumes when burned, including carbon monoxide and nitrogen oxides.
- Extinguishing Media** : This product may emit toxic fumes when burned, including carbon monoxide and nitrogen oxides.
- Hazard From Combustion products** : Specific hazards: carbon dioxide, carbon mono oxide and nitrogen oxides
- Protective equipment** : Fire fighters should wear proper protective equipment and selfbreathing apparatus. Avoid inhalation of dust and gas and contact with skin and eyes. 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

6. ACCIDENTAL RELEASE MEASURES

- In Case of Emergency** : Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
- Clean up Procedures** : Evacuate non-essential personnel. Wear proper equipment. Carefully sweep up and place in a container for waste disposal. Avoid raising dust. Wash the spillage area with water. Washings should not be poured into drains or waterway. Prevent spills from entering sewers, watercourses or low areas.

7. HANDLING AND STORAGE

- Handling** : Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust or vapor. Wash face and hands thoroughly with soap and water after handling.
- Storage** : Avoid direct sunlight. Store in a cool, dry and well-ventilated place. Keep in original containers, tightly closed. Keep away from food, drink and animal feeding stuffs and out of reach of children. Keep locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** : If practical, use with adequate ventilation in the working area. Make available in the work area emergency shower and eye wash.



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- Ingestion** : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product.
- Eye Protection** : Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.
- Skin Protection** : The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.
- Respiratory protection** : Avoid breathing mist. Use approved respiratory protection equipment when airborne exposure limits are exceeded.
- General Protection** : Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or snuff-taking at the place of work. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES (Technical)

- Colour** : Clear brown
- Melting point** : 154-158 °C
- Physical state** : Liquid
- Density** : 1.5±0.1 g/cm³

10. STABILITY AND REACTIVITY

- Chemical Stability** : This product is stable under normal warehouse conditions
- Conditions to Avoid** : Avoid temperatures above 150 °C.
- Hazardous decomposition products** : Sulphur dioxides, nitrogen oxides
- Hazardous Reactions** : No hazardous reactions when stored and handled according to instructions.

11. TOXICOLOGICAL INFORMATION (Technical)

- Acute Oral LD₅₀** : LD50 (oral) LD50 > 5000 mg/kg, rat
- Acute Dermal LD₅₀** : LD50 (dermal) LD50 > 2000 mg/kg, rat
- Acute Inhalation LC₅₀** : LC50 > 2.0 mg/L
- Skin Irritation** : Slightly irritating, Toxicity Category IV



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Eye Irritation	:	Minimally irritating, New Zealand white rabbits
Skin Sensitization	:	Not considered to be a dermal sensitizer in guinea pigs

12. ECOLOGICAL INFORMATION

Effect on Honeybees	:	Harmless
Fish	:	LC50 = 440 mg/l(24 hours)
Daphnia	:	EC50 > 50 mg/l
Bees	:	Harmless

13. DISPOSAL CONSIDERATIONS

Disposal	:	Dispose in accordance with local, state, and federal regulations.
Disposal of empty Containers	:	Emptied containers retain dust and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank or where it is used. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

Shipping Name	:	Neem based insecticide.
UN No.	:	UN2588
Class	:	3
Packing group	:	III

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Marine pollutant : Symbol (fish and tree)

15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

Risk Phrase **R 23/25:** toxic by inhalation and if swallowed.
R 51/53: Harmful by inhalation and in contact with skin and if swallowed. Irritating to eyes and skin, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrase **S2** - Keep out of reach of children.
S36 - Wear suitable protective clothing, gloves and eye/face protection.

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: 22/04/2021



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