

Material Safety Data Sheet

Products name : GIK NEEM

Jan. 29th 2010

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Products name : GIK NEEM

1. Identification

Single products • mixture discrimination : mixture neem oil ,emulsifier and water.

2. Composition / Information of ingredients

Neem oil stock solution.

(Compress and succus stock solution of no using chemical solvent.)

Moisture	8.19 %/mass
Total Plate count	1500
Crude Fibre	5.36 %/mass
Calcium	2.50 gm/100gm
Magnesium	0.012 ppm
Iron	21.80 gm/100gm
Copper	0.43 ppm
Nitrogen	4.96 gm/100gm
Phosphorus	58.73 gm/100gm
Zinc	0.077 ppm
Manganese	0.064 ppm
Potassium	1.01 %/mass
Silica	10.65 %/mass
Sulphur	0.53 %/mass
pH	6.74

Compress soapberry and derive emulsifier.

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3. Hazard classification : Not applicable.
Reason : 100% of natural material.

4. Emergency treatment
Less urgent dilute by 200-500 times.
Should it get into your eyes : Rinse them with water.
Adhere to clothes : Rinse them with water. However using 200 ~ 500 times diluted products, it will stain on the infrequent occasion.
Adhere to skin : Rinse them with soap or water, because of the oil component.
Swallowing : Accidentally swallows the products, gargle and wash out.

5. In case of fire
Unnecessary of taking action.(However it contains the oil component, It is unflammable, because of the oil compressed and succus berries.)

6. Treatment of oil leakage
Clean off.

7. Cautions for handling and storage
Handling :
 - Nothing in specific
 - Mix well and dilute, if there is any separation.
 - Clot in cold area, double-boil with 30 ~ 40 hot water.Storage :
 - avoiding deterioration, keep away from direct sunlight and dark storage under 60 at normal temperature.
 - Do not store in the refrigerating chamber, cause clotting.

8. Equipment prevention and safeguard
No need in specific.

9. Chemical behavior
No relevant.

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10. Stability and reactivity

No hazardous reaction.

11. Hazardous information

Hazardous of composition material : Do not include hazardous substances.

12. Environmental effect information

No harm on environment when leakage and disposal.

13. Caution for disposal

Nothing in specific.

14. Attention for transporting

Nothing in specific. Just to make sure that there is no leakage, turnover, falling or damage. Same applies to ground, marine and air transportation.

15. Applicable rules or regulation

Fire defense Law Assignment combustible materials; no relevant.

Health and Safety at work etc. act Hazardous material; no relevant.

Ship safety act; no relevant.

16. Other information

1) Food pesticide residue has become positive list system since May 29th 2006. The extracted neem oil without using the chemical solvent has recognized as a material of no impairing human health. (Ministry of Health : Exempt material lay down on Food Sanitation Act, 11th article, section3.)

2) Composition •component analysis: FOOD RESEARCH AND ANALYSIS CETRE.
(FEDERATION HOUSE ,TANSEN MARG,NEWDELHI.110001)

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3) The Japan Patent Office

Patent number : 3284404

Name of invention : Farm anthelmintic (March 8th 2002)

Inventor Prof.Subhendu Narayan Ganguly

(Former professor of Calcutta University. Current administration officer at tea industry development corporation of West Bengal Province, guest professor at Stevens Institute of Technology of United States.)

4) Ministry of Health registry inspection institute, central institute of QSAI Analysis and Research Center Co Ltd.

Analysis institute has conducted agrichemical component inspection for 625 items, and complied with not detectable test. (February 20th 2008)

5) Environment agency : Environmental quality standards for soil contamination : complied with measurement test. (December 8th 1998)

6) Environment agency : Criteria for industrial residue including metal : complied with measurement test. (December 8th 1998)

17. Bibliography

- THE JAPAN AGRICULTURAL NEWS
- John Conrick, *NEEM: The Ultimate Herb*
- Board on Science and Technology for International Development National Research Council, *Neem : A tree for Solving Global Problems*
- Akihiro Kusama, *A tree, has a beneficial effect on health and environment*