

2005-3778
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JUN 23
AB/FDA

6/15/05

There are 2 separate new dietary ingredients filing in this package, please process accordingly.

1. Toona Sinensis
2. Heracleum Lanatum

If you have any question, please contact me at:

Leonard Lee
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Cathedral City, Ca. 92234
Tel: 951-845-7124

Thank you very much and our best regards!



2005-3777

New dietary Ingredient Pre-market Notification for:

JUN 23
J.B. FDA

Toona Sinensis

Person submitted	Leonard Y Lee	Tel: 951-845-7124	
Address	31855 Date Palm Dr. #153 Cathedral City Ca 92234		
Common name	Chinese cedar	Content 70% of the tablet, in Powder form	Meliaceae
Author	(A Juss) M Roem	Botanical references:	11, 109, 200
Synonyms:	Cedrella sinensis (A Juss), Ailanthus flavescens		
Other Common Names:	From various places around the Web, may not be correct See below Ch'Un , Cedrela sinensis		
Other Range Info	From the <u>Ethnobotany Database</u> China		

Physical Characteristics

A deciduous tree growing to 20m by 8m at a fast rate. It is hardy to zone 5 and is frost tender. It is in flower in July. The scented flowers are hermaphrodite (have both male and female organs) and are pollinated by Insects. We rate it 3 out of 5 for usefulness.

The plant prefers light (sandy), medium (loamy) and heavy (clay) soils and requires well-drained soil. The plant prefers acid, neutral and basic (alkaline) soils and can grow in very alkaline soil. It cannot grow in the shade. It requires moist soil.

Edible Uses

Fruit; Leaves; Tea.

Young shoots and leaves - cooked. This is a highly esteemed food in China, it is said to resemble onions in flavour and is usually boiled. Rich in vitamin A, the leaves also contain about 6% protein, 1% fat, 66% carbohydrate, 1.5% ash.

The leaves can be used as a tea substitute.

Fruit. No further details are given.

Medicinal Uses

Astringent; Carminative; Febrifuge; Ophthalmic; Styptic.

The bark is astringent, carminative, febrifuge, ophthalmic and styptic. A decoction is used in the treatment of diarrhoea, chronic dysentery, flatulence, bloody stools, seminal emissions, leucorrhoea, metrorrhagia and gonorrhoea

PFAF Web Pages

This plant is mentioned in the following web pages

- [PFAF. Edible Trees and Shrubs Hardy in Britain](#)
- [PFAF. Edible Trees and Shrubs Hardy in Britain: S-T](#)
- www.avrdc.org

Web References

- Details of Scandanavian and European Common names in [Henriette's names database](#)
- [Data](#) (Common Names, Uses, Distribution) from the USDA/ARS NPGS's [GRIN](#) taxonomic database

References for *Ailanthus flavescens* (a possible synonym).

- Details of Scandanavian and European Common names in [Henriette's names database](#)

References for *Cedrela sinensis* (a possible synonym)

- Details of Scandanavian and European Common names in [Henriette's names database](#)
- www.agrohaitai.com/others/chinesetoon/chinesetoon.htm (copy enclosed)

References

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- [11] **Bean. W.** *Trees and Shrubs Hardy in Great Britain. Vol 1 - 4 and Supplement.* Murray 1981
- [78] **Sheat. W. G.** *Propagation of Trees, Shrubs and Conifers.* MacMillan and Co 1948
- [105] **Tanaka. T.** *Tanaka's Cyclopaedia of Edible Plants of the World.* Keigaku Publishing 1976
- [109] **Wilson. E. H.** *Plantae Wilsonae.*

- [113] **Dirr. M. A. and Heuser. M. W.** *The Reference Manual of Woody Plant Propagation*. Athens Ga. Varsity Press 1987 ISBN 0942375009
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- [160] **Natural Food Institute,** *Wonder Crops*. 1987.
- [177] **Kunkel. G.** *Plants for Human Consumption*. Koeltz Scientific Books 1984 ISBN 3874292169
- [178] **Stuart. Rev. G. A.** *Chinese Materia Medica*. Taipei. Southern Materials Centre
- [179] **Reid. B. E.** *Famine Foods of the Chiu-Huang Pen-ts'ao*. Taipei. Southern Materials Centre 1977
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- [200] **Huxley. A.** *The New RHS Dictionary of Gardening*. 1992. MacMillan Press 1992 ISBN 0-333-47494-5
- [245] **Genders. R.** *Scented Flora of the World*. Robert Hale London 1994 ISBN 0-7090-5440-8

Other supporting documents included in this submission:

- Extract from the leaves of *Toona Sinensis* Roenmor exerts potent antiproliferative effect on human lung cancer cells, By Kaohsing Medical University. *American Journal of Chinese Medicine*, Vol. 30 Nos. 2&3 307-314
- Protective effect of methyl gallate from *Toona Sinensis* against hydrogen peroxide-induced oxidative stress DNA damage in MDCK Cells. By Dept. Food Technology, Tajen Institute of Technology and various Medical Universities, Taiwan. Jan. 15, 2004, Elsevier, *Food and Chemical Toxicology* 42, (2004)843-850
- Cytotoxic Activity of *Toona Sinensis* on Human Lung Cancer Cells. By Dept. of Physiology and Internal Medicine, Kaohsiung Medical University, Taiwan, Sept. 2003
- Enhancement of glucose uptake in 3T3-L1 adipocytes by *Toona Sinensis* leaf extract. By Dept. of Pharmacology, Kaohsiung, Taiwan. *Kaohsiung Journal of Medical Science*. 2003 Jul; 19 (7):327-33
- Regulatory mechanism of *Toona Sinensis* on mouse leydig cell steroidogenesis. By SL Poon, SF Leu, HK Hsu and BM Huang, Dept. of Cell Biology and Anatomy, College of Medicine, National Cheng Kung University. Taiwan. *Life Science*, 2005 Feb. 11; 76(13):1474-87
- Chinese toon, or Xiang Chun Ya, from www.agrohaitai.com/others/chinesetoon/chinesetoon.htm