



Ultra International B.V.

Essential Oils, Ingredients, F & F

TECHNICAL DATA SHEET

Sr. No. : RM0047-V-02

Printed Date 31/01/2017

Item Code : RM0047

Date : 17/06/2013

Item Name : FIR NEEDLE OIL

Version : 02

CAS # 8021-29-2

FEMA # 2905

EINECS # 294-351-9

Botanical Name Abies siberica Ladeb

Product Description Colourless to slightly yellow having characteristic odour.

Origin Obtained by steam distillation from leaf/twigs of Abies siberica

PHYSICO-CHEMICAL PROPERTIES :

Appearance Colourless to slightly yellow

Physical Status LIQUID

Flash Point (Closed cup) °C 43°C

Refractive Index 1.460-1.480 @20°C

Relative Density 0.890-0.915 @20°C

Optical Rotation -45° to -30°

Solubility in Alcohol 1:2 (v/v) in 90% ethanol

Solubility in Water Insoluble

Main Components by GLC

Bornyl Acetate: 23-30%

Alpha Pinene: 10-20%

Limonene: 4-9%

Camphene: 20-30%

Delta-3-Carene: 8-20%

Beta Pinene: 1.5-4%

Alpha Pinene: 10-20%

beta Phellandrene: 1.5-5%

Shelf Life 12 months under recommended storage conditions.

Legislation Natural

Stability Avoid strong acids strong bases and all oxidising agents

Uses Fragrance & Flavour Application

HANDLING PRECAUTION

Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

PACKING & STORAGE

Store at ambient temperature, dry and well-ventullated area, away from heat source and protected from light. Store in tightly sealed original containers, packed in Aluminium bottles, HDPE Food grade cans, MS Coated Drums or GI Drums. Keep air contact min

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