

TECHNICAL DATA SHEET

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Item Name : FIR NEEDLE OIL

Version : 01

CAS #	8021-29-2 ¹ , 91697-89-1 ²
FEMA #	2905
EINECS #	294-351-9
BOTANICAL NAME	<i>Abies siberica</i> Ledeb
Description	A colourless to slightly yellow liquid with characteristic odour.
Origin	Obtained from the steam distillation from leaf/ twig of <i>Abies siberica</i> .

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 in 90% clear to slightly turbid
Solubility in Water	Insoluble
Assay by GC/MS (%)	Limone α – pinene Camphene β – pinene Delta-3-carene

Shelf Life	12 months with proper storage conditions.
Legislation	Natural
Stability	Avoid strong acids strong bases & all oxidizing agents.

HANDLING PRECAUTION
Handle with adequate ventilation Avoiding skin & eye contact. Use goggles or face shield safety gloves and wear protective clothing.

PACKING & STORAGE
Should be stored in cool, dry, well ventilated places in full, tightly sealed containers. Protected from light & source of ignition. Packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, GI Drums. Avoid long contact with Iron, heat and light.

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