

TECHNICAL DATA SHEET

Sr. No. : UL3000036-V-04

Issue Date: 17/02/2023

QUALITY CONTROL : We declare that certificate of analysis of this material is inspected according to quality parameters as below :

Item Code	UL3000036
Item Name	BLACK PEPPER OIL



Test Parameters	Specifications
CAS #	8006-82-4
EINECS #	284-524-7
FEMA#	2845
Botanical Name	Piper nigrum
Description	Colorless to light yellow coloured clear mobile liquid with spicy woody odor.
Origin	The essential oil is obtained by the steam distillation from the fruit of Piper nigrum
Appearance	Colorless to light yellow
Physical Status	Liquid
Flash Point (Closed cup) °C	49°C
Refractive Index	1.478 - 1.487 @20°C
Relative Density	0.864 - 0.880 @25°C
Optical Rotation	-18° to -7°
Solubility in Alcohol	1:3 in 95% alcohol
Solubility in Water	Insoluble
Assay by GC	beta-caryophyllene: 12 - 29% beta-pinene: 5 - 12% delta-3-carene: 3 - 15% Limonene: 10 - 17% alpha-pinene: 3 - 12%
Shelf Life	12 months under proper storage conditions.
Legislation	Natural
Stability	Avoid strong acids strong bases and all oxidizing agents.
Uses	Fragrance/Flavour application.

PACKING & STORAGE	Should be stored in a cool, dry well ventilated places in full tightly sealed containers protected from light. Containers should be kept away from light and sources of ignition.
HANDLING PRECAUTION	Handle with adequate ventilation Avoiding skin & eye contact. Use goggles or face shield safety gloves and wear protective clothing.

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