



# OZONE NATURALS

Doc No: ON/FG/ SPEC /003A

Effective From: 01/01/2021

## PRODUCT NAME:- GINGER OIL

|                               |   |
|-------------------------------|---|
| <b>BOTANICAL NAME</b>         | ZINGIBER OFFICINALE ROSCOE                                |
| <b>PLANT OF ORIGIN</b>        | INDIA   |
| <b>PART OF THE PLANT USED</b> | ZINGIBER OFFICINALE ROOT / RHIZOME                        |
| <b>CAS</b>                    | 84696-15-1 ; 8007-08-7                                    |
| <b>EINECS</b>                 | 283-634-2   |
| <b>FEMA</b>                   | 2522  |
| <b>EXTRACTION METHOD</b>      | Super critical fluid extraction by liquid CO <sub>2</sub> |

## PHYSICAL PROPERTIES

| S.NO. | PARAMETER   | SPECIFICATION   | METHOD USED |
|-------|-------------|---|-------------|
| 1.    | Description | Pale Yellow to Dark Yellow colour free flowing liquid.                  | Visually    |
| 2.    | Solubility  | Insoluble in water & miscible with oil and fat-soluble organic solvent. | Visually    |
| 3.    | Odour       | Characteristic aromatic, warming, pungent & spicy odour.                | By Odour    |
| 4.    | Taste       | Warm, pungent, biting and cool  | By Sensory  |

## CHEMICAL PROPERTIES

| S.NO. | PARAMETER                    | SPECIFICATION    | METHOD USED                |
|-------|------------------------------|------------------|----------------------------|
| 1.    | Moisture % (w/w)             | NMT – 5.0%       | USP<921> Method 1          |
| 2.    | Specific Gravity (@ 25°C)    | 0.8550 to 0.9250 | USP<841> Method 1          |
| 3.    | Refractive Index (@ 25°C)    | 1.4750 to 1.4950 | USP<831>                   |
| 4.    | Optical Rotation (@ 25°C)    | -40° to -25°     | USP <781>                  |
| 5.    | Volatile Oil Content % (v/w) | NLT – 95.0 %     | AOAC 962.17                |
| 6.    | Zingiberene Content (%)      | NLT – 30.0%      | In house method (By GC-MS) |

**Storage Conditions:-** Keep it away from heat & direct sunlight; store in cool & dry place, shake well before use. Do not handle with bare hands.

**Declaration:-** Free from the GMO, Solvent traces, Pesticide, heavy metals, NOTS & other additive.

**Packing Size:-** Food grade HDPE 1 kg, 5kg, 10kg, 25kg, 50kg, 190kg & 1000kg IBC, Aluminum 1kg, 5kg, 10kg, 25kg.

**Storage & Shelf Life:-** 18 months from the date of manufacture when stored ambient conditions in closed containers.

**Application:-** Raw material for the industrial use, Indented use for the manufacturer of flavors.