



## TECHNICAL DATA SHEET

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## ORANGE BITTER OIL

Version: 1.4

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

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**Name** : ORANGE BITTER OIL  
**Product code** : BIGHE01  
**Origin** : Tunisia

### SECTION 2: PRODUCTION PROCESS

**Manufacture** : Extraction by cold mechanical pressure of fresh pericarp (fruit's peel) of Citrus aurantium ssp amara

### SECTION 3: REGULATORY SITUATION

**Identification of the product** : Essential oil  
**Botanical name** : Citrus aurantium L. ssp amara Engl. (Citrus aurantium var. amara)  
**INCI Name** : CITRUS AURANTIUM AMARA PEEL EXTRACT  
**Synonyms** : CAS USA No 68916-04-1  
**CAS-No.** : 72968-50-4  
**EC-No.** : 277-143-2  
**FEMA** : 2823  
**FDA** : 182.20  
**CEE** : 136n

### SECTION 4: Physical and chemical properties

**Physical state** : Liquid.  
**Appearance** : Liquid mobile.  
**Colour** : Yellow. Green-brown. dark green.  
**Odour** : characteristic. pleasant fruity.  
**Flash point** : 47 °C  
**Relative density** : 0,84 - 0,86  
**Refractive index** : 1,472 - 1,476  
**Optical rotation** : 88 - 98 °  
**Solubility** : Poorly soluble in water. Solubility in ethanol.  
**Composition** : LIMONENE

### SECTION 5: Handling and storage

**Additional hazards when processed** : Handle empty containers with care because residual vapours are flammable.  
**Precautions for safe handling** : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing smokes, vapours.  
**Hygiene measures** : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.  
**Technical measures** : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.  
**Storage conditions** : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed.  
**Incompatible products** : Strong bases. Strong acids.  
**Incompatible materials** : Sources of ignition. Direct sunlight. Heat sources.  
**Maximum storage period** : 12 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.  
**Storage temperature** : ~ 10 (5 - 25) °C

Exaflor Technical Data Sheet

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*