



Technical specification. FQ07-06.

Bitter orange essential oil Code: AE-050 CAS: 68916-04-01 FEMA 2823

Description. This is the cold pressed oil obtained by expression from the peel of fresh Bitter oranges (*Citrus aurantium L*). This oil maintains the full and well-balanced flavor and odor notes from fresh bitter oranges. Food grade product.

Appearance. Crystal liquid pale yellow to brownish yellow

Taste and odor.Conforms to an approved standard when tasted at
0.01% in tasting syrup.

Physical	Specific gravity (20°C)	0.840 to 0.860
constants.	Refractive index (20°C)	1.4720 to 1.4780
	Optical rotation (20°C)	+88.0° to +99.0°
Chemical	Total aldehydes as decanal	0.25% to 1.4%

Legal status. 100% natural. Derived entirely from the named source.

Packaging. Epoxy lined steel drum.

constants.

Shelf life. At least 18 months from manufacture date if kept in full, originally sealed containers (room temperature), dark place.

This technical specification is generated by electronic media and is valid without signature. Edition: January 2022.

Eduardo Loera Technical Department

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Ave. Kalos 101 Colonia Kalos, Guadalupe, Nuevo León 67205 México

> Ref: 352-ELS22 Guadalupe, N.L., January 9th, 2022.

GUARANTEE LETTER

To whom it may concern:

The company Frutech International Corporation de México, S.A. de C.V., ensures that each batch or shipment of Bitter Orange essential oil, code AE-050, comply with the following:

- 1. It is a 100% product from fruit, therefore contain no animal derivates.
- 2. Our products are obtained from fruit wich passed strict controls on the use of pesticides, therefore, the content of these substances is low or zero.
- 3. Have not been adulterated and are free from foreign matter.
- 4. Meet the sanitary laws and corresponding Mexican Official Norms.
- 5. The products are safe for humans.
- Facilities and manufacturing processes of our products comply with the Mexican Official Norm NOM-251-SSA1-2009 "Goods and services, hygiene and sanitation practices for food processing, soft and alcoholic drinks".
- 7. Our products are permitted for its use as ingredients and / or additives by the national laws on food, they are also allowed under FDA regulations of the E.E.U.U.
- Our products are NOT genetically modified or are not derived from any genetically modified organism as defined in 1830/2003/EC on labeling and traceability and 1829 / 2003/EC on Genetically modified foods and any other concerning legislation.
- **9.** These materials do not appear in lists that include them as products that may cause allergic, sensitive or incompatibility reactions.
- **10.** These materials are free of heavy metals (lead, arsenic, mercury, cadmiun, selenium, copper) wich could interfere with product quality.

Our company is committed to customer satisfaction and to comply with all relevant regulations, inhealth issues as well as environmental and safety and food safety

Regards

Eduardo Loera S. Quality Assurance and Regulatory Manager Supervisores en Calidad Kosher Alef, S.C. Certificado de Kashrut



Vaad Hakashrut KA Kashrut Certificate תטוד

N° 1009046

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FRUTECH INTERNATIONAL CORPORATION DE MÉXICO

AV. KALOS Nº101, KALOS, GUADALUPE, NUEVO LEON, 67205

Los siguientes productos elaborados por: FRUTECH INTERNATIONAL CORPORATION DE MÉXICO (743) se encuentran certificados Kosher con los siguientes requerimientos:

The following products made by: FRUTECH INTERNATIONAL CORPORATION DE MÉXICO (743) are kosher certified with the following requirements:

Producto / Product 21751 BITTER ORANGE ESSENTIAL OIL / ACEITE ESENCIAL DE NARANJA AMARGA

Estatus / Status PAREVE / PARVE **Requerimientos / Requirements** SIMBOLO / SYMBOL

Pesaj / Passover NO

El presente certificado tiene validez hasta el 30/11/2022. /This certificate is valid until 11/30/2022.

כשרות

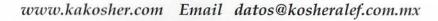


RABBI. CHAIM COHN

תוכה

ועד כשרות חרדי שע'י הקהילה האשכנזית ב'מקסיקו

Cualquier tachón o enmendadura en el presente documento, deja sin efecto la certificación. This document is void if damaged or has any alteration. Av. Monte Blanco # 1225, Col. Lomas de Chapultepec, CDMX, C.P. 11000 Tels. (55) 70309571, (55) 70309572



SDS. SAFETY DATA SHEET. FO08-07.



Bitter Orange Essential Oil. AE-050

1 IDENTIFICATION.

Product name:Bitter Orange Essential OilCode: AE-050Citrus aurantium LDate: January 2022Company name: Frutech International Corporation de México, S.A. de C.V.Ave. Kalos 101, Col. Kalos, Guadalupe N.L. México 67205Emergency telephone: +52 (81) 8326 · 1168 (monday to friday. 0800 - 1730)+52(81)1604 9247 (monday to sunday)

Application of the substance: Raw material: Fragrance, flavor application, manufacture of substances

2 hazards identification

2.1 Classification of the substance or mixture. GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids, H226.

Skin irritation, H315

Very toxic to aquatic life, H400

May be fatal if swallowed and enters aiways, H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements.

Pictogram



Signal word

Warning

Hazard statement(s)	
H226	Flammable liquids
H315 H400 H304 H319	Skin irritation Very toxic to aquatic life May be fatal if swallowed and enters aiways Causes serious eye irritation

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Bitter Orange Essential Oil. AE-050

Precautionary statement(s)

Rinse	P210 P233 P240 P241 P242 P243 P264 P280 P303 + P361 + P353 P302 + P313 P362 P370 + P378 P403 + P235 P501	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tighly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating / lighting/ equipment. Use only non-sparkling tools. Take precautionary measures against static discharge. Wash skin thoroughly after ahndling. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or air): Remove/ Take off immediately all contaminated clothing. skin wih water/ shower. Specific treatment (see supplemental first aid instructions on this label). If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foamfor extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.
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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3 composition/information on ingredients.

3.1	Substances.	
Produc	t description	Bitter Orange Essential Oil
CAS-N	0	68916-04-1

Hazard Components Component

Bitter Orange Essential Oil

Classification Flammable liquid 3; skin irrit. 2; H226, H315. Concentration 100%

4 FIRST AID MEASURES.

GENERAL ADVICE

Conult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

INHALATION:

In the event of excessive inhalation, remove affected individual to fresh air and keep at rest. Obtain immediate medical advice.

SKIN CONTACT:

In the event of accidental contact with the skin, remove any contaminated clothing or shoes. Wash affected areas with large amounts of water (or soap and water). If irritation persists or any tissue damage is apparent, obtain medical advice.

EYE CONTACT:

Remove any contact lenses, irrigate affected eyes with water or saline solution for at least ten minutes. Obtain medical advice immediately.

INGESTION:

In case of accidental ingestion, do not induce vomiting, obtain medical advice immediately. NOTES TO PHYSICIAN: Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident

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5 fire fighting measures.

SUITABLE EXTINGUISHING MEDIA:

CO2, foam or dry powder.

UNSUITABLE EXTINGUISHING MEDIA:

Use large quantities (flooding) of water applied as a mist or spray; solid streams may be ineffective. SPECIAL EXPOSURE HAZARDS IN FIRE:

Sealed containers may build up pressure and release combustible materials to the FIRE. Cool containers with water if exposed to fire. Hazardous decomposition products; burning may generate CO, CO2 and other unidentified hazardous organic compounds. Avoid inhaling fumes evolved in a fire. PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Use normal fire-fighters equipment. Wear self-contained breathing apparatus if necessary. FURTHER INFORMATION

Sensitivity of mechanical impot Sensitivity to static discharge None Yes

6 ACCIDENTAL RELEASE MEASURES.

Explosion data

PERSONAL PROTECTION:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all Sources of ignition. Beware of vapours accumulating to form axplosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. ENVIRONMENTAL PRECAUTIONS:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. METHODS FOR CLEANING:

Contain liquid spillage with inert powder, granular absorbent or earth/sand and remove to a disposal container according to local regulations.

REFERENCE TO OTHER SECTIONS

For personal protection see section 8, for disposal see section 13.

7 HANDLING AND STORAGE.

HANDLING:

Treat containers with respect to avoid damage.

Allow adequate ventilation in use.

Sep air contact to a minimum.

Protect from fire. Keep away from heat, sparks and flames.

Do not ingest undiluted material.

Do not eat, drink or smoke

To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded

STORAGE:

Store In full, sealed containers in a cool, dry dark place. Avoid extremes of temperature. Do not freeze. Store separately from oxidizing agents.

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8 exposure control / personal protection.

ENGINEERING CONTROLS:

Minimize release of product to workplace atmosphere. Local exhaust ventilation is recommended. When processing above the flashpoint temperature, the vapor is explosive when mixed with air. Such temperatures should be avoided. Avoid static discharge and all ignition sources. Used closed equipment, adequate ventilation and explosion proof electrical equipment.

Showers, eye wash stations, ventilation systems.

PERSONAL PROTECTION:

Eye / face protection

Face shield and safety glasses use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

SKIN PROTECTION

Handle with gloves.

RESPIRATORY PROTECTION

If exposure limits are exceeded for irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

HYGIEN MEASURES

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work are and clothing. Remove and wash contaminated clothing before re-use.

ENVIRONMENTAL EXPOSURE CONTROLS

Prevent entry into drains, ground/surface water or sewerage system.

9 PHYSICAL AND CHEMICAL PROPERTIES.

1 Appearance: 2 Odor: 3 Odor threshold: 4 pH: 5 Molting point (freezing point:	Crystal liquid/ pale yellow to amber. Characteristic, Citrus- orange. No data available. No data available. No data available.
5 Melting point / freezing point: 6 Initial Boiling point and boiling range:	NO Uala avaliable.
7 Flash point:	46°C (closed cup)
8 Evaporation rate:	No data available.
9 Flammability (solid, gas):	No data available.
10 Upper / lower flammability or explosive limits	No data available.
11 Vapor pressure:	No data available.
12 Vapor density:	No data available.
13 Relative density:	0.840-0.860 g/cm3 at 25°C (77 °F)
14 Solubility (ies):	Water: No Oil: Yes
15 Partition coefficient: n-octanol / water:	No data available.
16 Auto ignition temperature:	No data available.
17 Decomposition temperature:	No data available.
18 Viscosity:	No data available.

Other data:

CLASS 3, PACKING GROUP III

Frutech International Corporation de México, S.A. de C.V.



Bitter Orange Essential Oil. AE-050

10 stability and reactivity.

- 10.1 Reactivity:
- 10.2 Chemical stability:
- 10.3 Possibility of hazardous reactions:
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:
- 10.6 Hazardous decomposition products:

11 TOXICOLOGICAL INFORMATION.

Information on toxicological effects Acute toxicity

LD50 oral - Rat - > 5,000 mg/kg

Inhalation: No data available.

LD50 Dermal - Rabbit -> 10,000 mg/kg

Skin corrosion / irritation.

Skin - Rabbit. Result: Moderate skin irritation - 24 h.

Serious eye damage/eye irritation.

No data available.

Respiratory or skin sensitisation.

No data available.

Germ cell mutagenicity

No data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at level greater than or equal to 0.1% is identified as a know or anticipated carcinogen by NTP.
- OSHA: No component of this product present at level greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available. **Specific target organ toxicity - single exposure** No data available. **Specific target organ toxicity - repeated exposure** No data available. **Aspiration hazard** No data available. **Specific target organ toxicity - repeated exposure** No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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No data available. Stable under recommended storage conditons. No data available. Heat, flames and sparks. Oxidizing agents. No dangerous decomposition products expected by intended use. In the event of fire, see section 5.

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12 ECOLOGICAL INFORMATION.

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Bitter Orange Essential Oil	Very toxic to aquatic organism	Very toxic to aquatic organism	No data available

Persistance and degradability.

No data available.

Bioaccumulation.

No data available.

Mobility in soil.

No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS.

There should be no product residues. Contaminated packaging can be burnt, or washed and recycled. Avoid disposal into drainage/sewerage systems or directly into the soil or aquatic environment. Dispose of according to national / local regulations. .

14 TRANSPORT INFORMATION.

DOT (US).UN number: 1197Class: 3Packaging group: IIIProper shipping name: Extracts, Flavoring liquids.

Poison inhalation Hazard: No Environmental hazards: Marine pollutant.

IMDG

UN number: 1197 Class: 3 Packaging group: III EMS-No:F-E, S-E Proper shipping name: Extracts, Flavoring liquids.

Poison inhalation Hazard: No Environmental hazards: Marine pollutant.

IATA

UN number: 1197 Class: 3 Packaging group: III Proper shipping name: Extracts, Flavoring liquids.

Poison inhalation Hazard: No Environmental hazards: Marine pollutant.

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Bitter Orange Essential Oil. AE-050

15 regulatory information.

EU regulations.

This product has been clasified and marked in accordance with the EU Directives / Ordinance on Hazzardous Materials.

Internal inventories TSCA DSL / NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS	Complies. Complies. Complies Complies Complies Complies Complies
Legend:	United States Toxic Substances Control Act Section 8(b) Inventory.
TSCA	Canadian Domestic Substances List/Non-Domestic Substances List.
DSL / NDSL	European Inventory of Existing Commercial Chemical Substances/EU List of
EINECS/ELINCS	Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemical and Chemical Substances.
AICS	Australian Inventory Of Chemical Substances.

Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water ACT

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(40 CFR 302) or the Superfund Amendments and Reauthorization ACT (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

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$16 \, \text{other} \, \text{information}.$

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways
H400	Very toxic to aquatic life.
H319	Causes serious eye irritation
Skin irrit.	Skin irritation.

2

HMIS Rating

Health hazard:

Further information.

The above information is believed to be correct but does not purport to be all inclusive and shallbe used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Frutech International Corporation de México shall not be held liable for any damage resulting from handling or from contact with the above product.

The information relates only to the specific mterial designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.