

## **SAFETY DATA SHEET**

**In accordance with 29 CFR 1910.1200**

**Product:** Frankincense Oil Somalia

**Version:** 1

### **1. IDENTIFICATION**

#### **Product Identifier**

**Product identifier:** Frankincense Oil; CAS: 8016-36-2

**Other identifiers:** Frankincense Oil Somalia Boswellia carterii

#### **Recommended use of the chemical and restrictions on use**

**Product uses:**

#### **Supplier Details**

**Company name:** Artisan Aromatics  
**Company address:** 1708 Lena Street, #103  
Santa Fe, NM 87505  
**Contact:** Stephanie Ariel  
hello@artisanaromatics.com  
**E-Mail address:**  
**Company phone:** 505 231-9439

#### **Emergency telephone number**

**Emergency phone:** ChemTel: 1-800-255-3924 (Domestic)

### **2. HAZARD IDENTIFICATION**

#### **Classification**

**This product is classified under 29CFR 1910.1200(d) as follows:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Class and category of** Flammable Liquid, Hazard Category 3  
**danger:** Acute Toxicity - Oral Category 4  
Skin Corrosion / Irritation Category 2  
Sensitization - Skin Category 1  
Aspiration Hazard Category 1

**Signal word:** Danger

**Hazard statements:** Flammable liquid and vapour.  
Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.

**M factor:** None

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**Pictograms:**



**Precautionary statements:**

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical, ventilating and lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing vapour or dust.  
Wash hands and other contacted skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
Rinse mouth.  
Do not induce vomiting.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Hazards not otherwise classified (HNOC)** None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

**Product identifier:** Frankincense Oil; CAS: 8016-36-2



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**Contains:**

Name	CAS	%	GHS Classification
alpha-Pinene	80-56-8	20-<50%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H302-H304-H315-H317
d-Limonene	5989-27-5	5-<10%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317
beta-Pinene	127-91-3	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317
beta-Caryophyllene	87-44-5	1-<5%	Skin Sens. 1B-Asp. Tox 1;H304-H317
Myrcene	123-35-3	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319
delta-3-Carene	13466-78-9	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1;H226-H304-H315-H317
Eucalyptol	470-82-6	0.1-<1%	Flam. Liq. 3-Skin Sens. 1B;H226-H317
Linalool	78-70-6	0.1-<1%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B;H227-H315-H317-H319

The exact percentage concentrations of components are being withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Description of first aid measures**

- Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
- Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
- Skin exposure:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Most important symptoms and effects, both acute and delayed**

- Harmful if swallowed.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- May cause an allergic skin reaction.

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Suitable media: Carbon dioxide, Dry chemical, Foam.

**Specific hazards arising from the chemical**

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.



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### **Protective Equipment and Precautions for Firefighters**

In case of insufficient ventilation, wear suitable respiratory equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

### **Methods and material for containment and cleaning up:**

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling:**

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
Do not eat, drink or smoke when using this product.

### **Conditions for safe storage, including any incompatibilities:**

Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Other exposure guidelines**

No information available

### **Exposure controls**

#### **Engineering measures**

Showers, eyewash stations, ventilation systems.

### **Individual protection measures, such as personal protective equipment**

#### **Eye/Face and Skin Protection**

Wear protective gloves/eye protection/face protection, and suitable protective clothing



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### Respiratory protection

If exposure limits are exceeded or 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. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

<b>Appearance:</b>	Not determined
<b>Odor:</b>	Not determined
<b>Odor threshold:</b>	Not determined
<b>pH:</b>	Not determined
<b>Melting point / freezing point:</b>	Not determined
<b>Initial boiling point / range:</b>	Not determined
<b>Flash point:</b>	95 °F / 35 °C
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Upper/lower flammability or explosive limits:</b>	Product does not present an explosion hazard
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not determined
<b>Relative density:</b>	Not determined
<b>Solubility(ies):</b>	Not determined
<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined
<b><u>Other information:</u></b>	None available

## 10. STABILITY AND REACTIVITY

### Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

### Chemical stability:

Good stability under normal storage conditions.



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**Possibility of hazardous reactions:**

Not expected under normal conditions of use.

**Conditions to avoid:**

Avoid extreme heat.

**Incompatible materials:**

Avoid contact with strong acids, alkalis or oxidising agents.

**Hazardous decomposition products:**

Not expected.

### **11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

<b>Acute Toxicity:</b>	Acute Toxicity - Oral Category 4
Acute Toxicity Oral	1823
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
<b>Skin corrosion/irritation:</b>	Skin Corrosion / Irritation Category 2
<b>Serious eye damage/irritation:</b>	Based on available data the classification criteria are not met.
<b>Respiratory or skin sensitisation:</b>	Sensitization - Skin Category 1
<b>Germ cell mutagenicity:</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data the classification criteria are not met.
<b>STOT-single exposure:</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure:</b>	Based on available data the classification criteria are not met.
<b>Aspiration hazard:</b>	

**Additional Information** None available

### **12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Very toxic to aquatic life with long lasting effects.

**Persistence and degradability:** Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Other adverse effects:** Not available



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### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

	<b>14.1 UN number:</b>	<b>14.2 UN Proper Shipping Name:</b>	<b>14.3 Transport hazard class(es):</b>	<b>Sub Risk:</b>	<b>14.4. Packing Group:</b>
<b>UN Model Regulations</b>	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
<b>US DOT</b>	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
<b>US DOT (Bulk)</b>	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
<b>IMDG</b>	UN1169	EXTRACTS, AROMATIC, LIQUID (alpha-Pinene) MARINE POLLUTANT	3	-	III
<b>ADR,RID,ADN</b>	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III
<b>ICAO TI</b>	UN1169	EXTRACTS, AROMATIC, LIQUID	3	-	III

US DOT refers to domestic transport by road/rail within the 48 ground states

US DOT (Bulk) refers to domestic bulk transport by road/rail within the 48 ground states.

**Environmental hazards:** This is an environmentally hazardous substance.

**Special precautions for user:** None additional

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

RIFM ID Number: 6050-K2.12

LM Unique Identifier: LM9792

#### Additional information

None additional

### 16. OTHER INFORMATION

#### **Key to revisions:**

Not applicable

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions,



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AROMATICS

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recommendations and/or suggestions are made without guarantee.



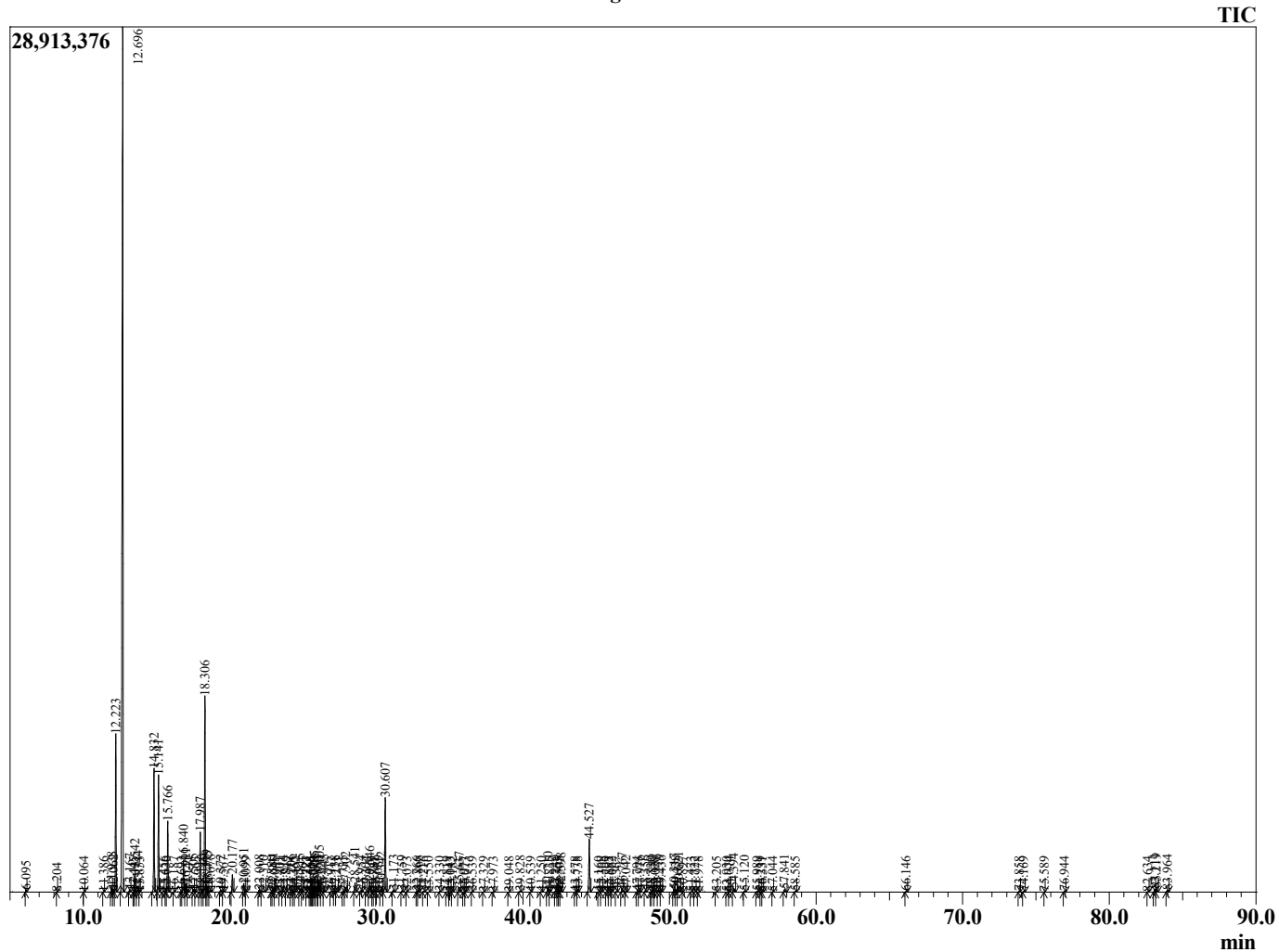
Sample Information

Analyzed by : J. Scalf  
 Analyzed : 11/22/2022 8:47:00 PM  
 Sample Type : Essential Oil  
 Sample Name : BosCar6  
 Injection Volume : 0.10 µL  
 Lot Number : J0F1121B  
 Instrument ID : GC-3

Peak Report TIC

R.Time	Name	Area%
6.095	Toluene	0.05
8.204	Unidentified	0.01
10.064	Unidentified	0.01
11.386	Unidentified	0.01
11.938	Hashishene	0.20
12.062	Tricyclene	0.09
12.223	alpha-Thujene	6.17
12.696	alpha-Pinene	48.52
13.167	Thujadiene isomer	0.10
13.445	alpha-Fenchene	0.02
13.542	Camphene	0.70
13.744	Thuja-2,4(10)-diene	0.24
13.853	Unidentified	0.01
14.832	Sabinene	4.99
15.141	beta-Pinene	4.81
15.456	Unidentified	0.01
15.636	3-para-Menthene	0.00
15.766	Myrcene	2.92
16.187	Unidentified	0.01
16.693	Pseudolimonene	0.03
16.840	alpha-Phellandrene	1.42
16.991	delta-3-Carene	0.38
17.141	Hexyl acetate	0.03
17.505	alpha-Terpinene	0.12
17.663	ortho-Cymene	0.02
17.987	para-Cymene	2.60
18.110	Unidentified	0.09
18.306	Limonene	8.76
18.399	beta-Phellandrene	0.27
18.475	1,8-Cineole	0.23
18.678	cis-beta-Ocimene	0.10
19.372	trans-beta-Ocimene	0.08
19.567	Unidentified	0.03
20.177	gamma-Terpinene	0.78
20.951	Octanol	0.39
21.099	Pinol	0.03
22.008	Unidentified	0.10
22.310	para-Cymenene	0.09
22.880	Perillene	0.03
22.941	Linalool	0.20
23.045	Unidentified	0.01
23.401	Isoamyl isovalerate	0.02
23.614	Unidentified	0.04
23.849	Unidentified	0.01
24.206	beta-Thujone	0.09
24.335	Myrcenol	0.04
24.462	trans-para-Mentha-2,8-dienol	0.02
24.815	alpha-Campholenal	0.15
24.961	Octyl formate	0.02
25.227	cis-Limonene oxide	0.01
25.468	cis-para-Mentha-2,8-dien-1-ol	0.02
25.516	trans-Limonene oxide	0.01
25.604	Nopinone	0.00
25.710	trans-Sabinol	0.02
25.785	trans-Pinocarveol	0.30
25.825	cis-Verbenol	0.14
25.960	Unidentified	0.00
26.105	trans-Verbenol	0.54
26.220	Camphor	0.02
26.445	alpha-Phellandrene-8-ol	0.10
26.912	Sabina ketone	0.02
27.138	trans-Pinocamphone	0.04

Chromatogram BosCar6



R.Time	Name	Area%
27.271	Pinocarvone	0.02
27.735	Unidentified	0.05
27.902	para-Mentha-1,5-dien-8-ol	0.24
28.541	Terpinen-4-ol	0.44
28.954	para-Cymen-8-ol	0.08
29.304	Myrtenol	0.02
29.546	alpha-Terpineol	0.63
29.749	trans-Anethole	0.02
29.881	cis-Isopiperitenol	0.03
30.089	alpha-Phellandrene epoxide	0.06
30.342	Verbenone	0.25
30.607	Octyl acetate	4.75
31.173	trans-Carveol	0.12
31.759	Decyl methyl ether	0.07
32.073	cis-Carveol	0.02
32.766	Cuminal	0.03
32.868	Carvone	0.07
33.216	Carvotanacetone	0.03
33.550	Piperitone	0.01
34.330	3,5-Dimethoxytoluene	0.03
34.819	Undecanol	0.01
35.043	Perillaldehyde	0.01
35.182	Phellandral	0.01
35.637	Bornyl acetate	0.24
35.977	Unidentified	0.01
36.073	para-Cymen-7-ol	0.00
36.539	Carvacrol	0.03
37.329	Unidentified	0.01
37.973	Unidentified	0.01
39.048	delta-Elemene	0.01
39.828	alpha-Cubebene	0.08
40.539	Neryl acetate	0.01
41.250	Cyclosativene	0.02
41.710	alpha-Copaene	0.26
41.835	Geranyl acetate	0.02
42.230	alpha-Bourbonene	0.07
42.353	Hexyl hexanoate	0.02
42.505	beta-Cubebene	0.02
42.598	beta-Elemene	0.21
43.578	cis-beta-Caryophyllene	0.01
43.738	alpha-Gurjunene	0.03
44.527	trans-beta-Caryophyllene	2.97
45.160	beta-Copaene	0.01
45.368	trans-alpha-Bergamotene	0.03
45.709	Unidentified	0.01
45.883	Guaia-6,9-diene	0.02
46.062	Unidentified	0.01
46.367	cis-Murrola-3,5-diene	0.02
46.767	alpha-Humulene	0.22
47.042	Alloaromodendrene	0.06
47.794	cis-Murrola-4(14),5-diene	0.03
47.976	trans-Cadina-1(6),4-diene	0.10
48.356	Germacrene D	0.08
48.730	delta-Selinene	0.02
48.849	beta-Selinene	0.12
49.028	gamma-Amorphene	0.04
49.279	alpha-Selinene	0.14
49.436	alpha-Muurolene	0.06
50.317	gamma-Cadinene	0.15
50.438	Cubebol	0.08
50.621	delta-Cadinene	0.27
50.897	Zonarene	0.01
51.473	trans-Cadina-1,4-diene	0.01

R.Time	Name	Area%
51.722	alpha-Cadinene	0.01
51.978	alpha-Calacorene	0.01
53.205	Unidentified	0.02
53.930	Unidentified	0.01
54.074	Spathulenol	0.01
54.394	Caryophyllene oxide	0.20
55.120	Viridiflorol	0.06
55.989	Humulene epoxide II	0.05
56.239	Unidentified	0.02
56.331	1,10-di-epi-Cubenol	0.02
57.044	Epicubenol	0.01
57.841	epi-alpha-Cadinol	0.15
58.585	alpha-Eudesmol + Himachalol	0.03
66.146	Phellandrene analogue	0.03
73.858	meta-Camphorene	0.03
74.169	Neocembrene	0.04
75.589	para-Camphorene	0.01
76.944	Verticilla-4(20),7,11-triene	0.04
82.634	Cembrenol	0.02
83.111	Incensole	0.16
83.219	Serratol	0.19
83.964	Incensyl acetate	0.10
		100.00