



## SAFETY DATA SHEET

### STAR ANISE OIL

Issue date: January 12, 2021

Revision date: July 1, 2023



Version #3

Print date: July 1, 2023

#### 1. Identification of the substance/preparation and the company/undertaking

Product Name	Star anise oil
Botanical Name	Illicium verum
CAS Number	<ul style="list-style-type: none"><li>68952-43-2</li><li>84650-59-9</li><li>8007-70-3</li></ul>
EC Number	283-518-1
FEMA Number	2096
Recommended use	Essential oils
Recommended restrictions	No relevant information is available
<b>Manufacturer Information</b>	
Company name	TECH-VINA Joint Stock Company
Address	Binh Dan Village, Tan Dan Commune, Khoai Chau District, Hung Yen Province, Vietnam
Telephone	+84 866 115 486
Website	<a href="http://www.techvina.vn">www.techvina.vn</a>
Email	info@techvina.vn
Emergency phone number	+84 912 939 338

#### 2. Hazards Identification

Physical hazards	Not classified.
Classification of the substance or mixture:	Skin sensitization (Category 1), H317 Long-term (chronic) aquatic hazard (Category 2), H411 For the full text of the H-Statements mentioned in this Section
Environmental hazards	Not classified.
Label elements	  GHS07                      GHS08
Signal word	Warning
Hazard Statements	H317 May cause an allergic skin reaction.



H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer..

#### Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water.

#### Supplemental

None.

#### Hazard

#### Statements

#### Storage

P405 Store locked up.

Hazard(s) not otherwise classified (HNOC) None known.

#### Supplemental Information

None.

### 3. Composition/Information on Ingredients

Chemical name Star anise oil

#### Common name &synonyms

Chemical Characterization Substances

CAS Number

- 68952-43-2
- 84650-59-9
- 8007-70-3

EC Number 283-518-1

FEMA Number 2096

Purity 100.0%

### 4. First-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into the fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Unsuitable extinguishing media:** Do NOT use a water jet.





**Special hazards arising from the substance or mixture:** Nature of decomposition products not known

**Advice for firefighters:** Wears self-contained breathing apparatus for firefighting if necessary.

**Further information:** Use water spray to cool unopened containers.

## 6. Accidental release measures

**Personal precautions, protective equipment, and emergency procedures** Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas..

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in a container for disposal according to local/national regulations. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

**Conditions for safe storage, including any incompatibilities** Keep the container tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Store in a cool place.

## 8. Exposure controls/personal protection

**Control parameters** Ingredients with workplace control parameters

**Exposure controls** No biological exposure limits were noted for the ingredient(s).

**Appropriate engineering controls** Use explosion-proof ventilation equipment to stay below exposure limits.

### Personal protective equipment

**Eye/face protection** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.

**Hand skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Complete suit protecting against chemicals, The type of protective



Respiratory protection	equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator.
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Discharge into the environment must be avoided.

## 9. Physical and chemical properties

<b>Appearance</b>	Refer to Spec Sheet
Physical state	Liquid
Form	Liquid
Color	Colorless to Pale Yellow
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 92.8 °C closed cup
<b>Refractive Index</b>	1.550 – 1.565
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available.
<b>Solubility (water)</b>	Insoluble
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Specific gravity</b>	0.960 to 0.995 @ 25 °C

## 10. Stability and reactivity

<b>Reactivity</b>	No data is available.
<b>Chemical stability</b>	Stable under normal temperatures and pressures
<b>Possibility of hazardous reactions</b>	Reacts with strong oxidizing agents. Toxic fumes may be released if heated above the decomposition point
<b>Conditions to avoid</b>	Excessive heat
<b>Incompatible materials</b>	Oxidizers.





**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions.  
The nature of decomposition products is not known.

## 11. Toxicological Information

### Information on the likely routes of exposure:

Acute toxicity LC50 Oral - Rat : 2 - 5 mg/kg  
Inhalation No data is available  
Skin Contact No data is available  
Eye Contact No data is available  
Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity No data available

Carcinogenicity No ingredient of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.

Reproductive toxicity No data is available.

## 12. Ecological Information

**Toxicity** Toxic to aquatic life with long-lasting effects

### Aquatic toxicity (acute)

Endpoint	Value (mg/l)	Species	Source	Exposure time (h)
EC50	29,96	aquatic invertebrates	ECHA	48
ErC50	6,18	algae	ECHA	72

### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time 9 (h)
Anethole	4180-23-8	LC50	7 mg/l	fish	96 h
Anethole	4180-23-8	EC50	4,25 mg/l	aquatic invertebrates	48 h
Methyl chavicol	140-67-0	EC50	17,58 mg/l	aquatic invertebrates	48 h
Methyl chavicol	140-67-0	ErC50	2,81 mg/l	algae	72 h
D-(+)-Limonene	5989-27-5	LC50	0,46 mg/l	fish	96 h
D-(+)-Limonene	5989-27-5	EC50	0,307 mg/l	aquatic invertebrates	48 h





D-(+)-Limonene	5989-27-5	ErC50	0,32 mg/l	algae	72 h
Linalool	78-70-6	LC50	27,8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156,7 mg/l	algae	96 h

**Aquatic toxicity (chronic)** May cause long-term adverse effects in the aquatic environment

**Aquatic toxicity (chronic) of components of the mixture**

Name of substance	CAS Number	Endpoint	Value (mg/l)	Species	Exposure time (d)
Anethole	4180-23-8	EC50	2,81 mg/l	aquatic invertebrates	21 d
D-(+)-Limonene	5989-27-5	EC50	<0,67 mg/l	fish	8 d
D-(+)-Limonene	5989-27-5	EC50	188 µg/l	aquatic invertebrates	21 d
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min

**Persistence and degradability** No data is available on the degradability of this substance.

**Bioaccumulative potential** No data is available.

**Mobility in soil** No data is available.

**Other adverse effects** Avoid exposure to marine environments and waterways

### 13. Disposal Considerations

**Waste from residues/ unused products** Product Offers surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

**Contaminated packaging** Dispose of as unused product.

### 14. Transport Information

ADR/RID:

UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Class	Not Regulated





Packing Group	Not Regulated
Transport hazard class(es)	No information available
Environmental hazard	Not applicable
Special Provisions	None
<b>IMDG</b>	
UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Class	Not Regulated
Packing Group	Not Regulated
Transport hazard class(es)	No information available
Environmental hazard	Not applicable
Special Provisions	None
<b>IATA</b>	
UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Class	Not Regulated
Packing Group	Not Regulated
Transport hazard class(es)	No information available
Environmental hazard	Not applicable
Special Provisions	None
<b>15. Regulatory Information</b>	
Safety, health, and environmental regulations/legislation specific to the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH - Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, preparations, and articles (Annex XVII).
Chemical Safety Assessment	For this product, a chemical safety assessment was not carried out
<b>16. Other Information</b>	
Issue date	January 12, 2021
Revision Date	July 1, 2023
Version #	3
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.	
This safety data sheet is intended to meet the specific requirements of GHS and should be used accordingly. While the information has been obtained from sources believed to be accurate and reliable, no warranty, expressed or implied, can be made about its completeness, correctness, or accuracy. Any users or handlers of this product who are not under the direct control of Tech-vina	



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