



SAFETY DATA SHEET

01. IDENTIFICATION

NAME OF PREPARATION OR SUBSTANCE: Star Anise Oil
INCI NAME: *Illicium Verum*
SUPPLIER NAME: Jedwards International, Inc.
SUPPLIER ADDRESS: 141 Campanelli Drive
Braintree, MA 02184 USA
TELEPHONE NUMBER: (617)472-9300
RECOMMENDED USE: For manufacturing and repackaging use only
EMERGENCY TELEPHONE NUMBER: Chemtrec 1-800-424-9300 (24 hrs)

02. HAZARD IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS: Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.

POTENTIAL CHRONIC HEALTH EFFECTS:
CARCINOGENIC EFFECTS: Not available
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast
TERATOGENIC EFFECTS: Not available
DEVELOPMENTAL TOXICITY: Not available

Repeated or prolonged exposure is not known to aggravate medical condition.

03. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: *Illicium Verum*
SUBSTANCE/PRODUCT IDENTIFICATION:
CAS No.: 8007-70-3
SYNONYMS: Chinese Star Anise Oil, Illicium Verum Hook Oil, Star Oil (Illicium verum hook, F.), Star Anise Oil (Illicium veru hook, F.)

04. FIRST AID MEASURES

EYE CONTACT: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

SERIOUS SKIN CONTACT: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.



SERIOUS INHALATION:
INGESTION:

Not available
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Not available

SERIOUS INGESTION:

05. FIRE FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT:
AUTO-IGNITION TEMPERATURE:
FLASH POINT:
FLAMMABLE LIMITS:
PRODUCTS OF COMBUSTION:
FIRE HAZARDS IN PRESENCE
OF VARIOUS SUBSTANCES:

Combustible
Not available
83.333°C (182°F) Closed cup.
Not available
Not available

EXPLOSION HAZARDS IN PRESENCE
OF VARIOUS SUBSTANCES:

Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

RISKS OF EXPLOSION OF THE PRODUCT
IN PRESENCE OF MECHANICAL IMPACT:
RISKS OF EXPLOSION OF THE PRODUCT
IN PRESENCE OF STATIC DISCHARGE:

Not available
Not available

FIRE FIGHTING MEDIA AND INSTRUCTIONS:
SMALL FIRE:
LARGE FIRE:

Use DRY chemical powder.
Use water spray, fog or foam. Do not use water jet.
Not available
Not available

SPECIAL REMARKS ON FIRE HAZARDS:
SPECIAL REMAKRS ON EXPLOSION HAZARDS:

06. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

LARGE SPILL:

Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. If the product is in its solid form, use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form, absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

07. HANDLING & STORAGE

PRECAUTIONS:

Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor /spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek



STORAGE:

medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep container in a cool, well-ventilated area. Keep container tightly closed and seal until ready for use. Avoid all possible sources of ignition (spark or flame).

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

PERSONAL PROTECTION:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

PERSONAL PROTECTION IN CASE OF LARGE SPILL:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

EXPOSURE LIMITS:

Not available

09. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:

A clear, colorless, pale yellow or yellow liquid

MELTING POINT:

16.5°C (61.7°F)

VAPOR PRESSURE (mm Hg @ 20°C):

Not applicable

VAPOR DENSITY (AIR = 1):

Not applicable

SPECIFIC GRAVITY @ 25°C (WATER = 1):

0.918-0.938

SOLUBILITY:

Soluble in diethyl ether. Insoluble in cold water, hot water. Soluble in alcohol.

10. STABILITY & REACTIVITY

STABILITY:

The product is stable.

INSTABILITY TEMPERATURE:

Not available

CONDITIONS OF INSTABILITY:

Heat, ignition sources (flame, sparks), incompatible materials.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES:

Not available

CORROSIVITY:

Not available

SPECIAL REMARKS ON REACTIVITY:

Light sensitive. No other information available.

SPECIAL REMARKS ON CORROSIVITY:

Not available

POLYMERIZATION:

Will not occur

11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY:

Absorbed through skin. Eye contact. Inhalation.

TOXICITY TO ANIMALS:

ACUTE ORAL TOXICITY (LD50):

2250 mg/kg [Rat]

ACUTE DERMAL TOXICITY (LD50):

>5000 mg/kg [Rabbit]

CHRONIC EFFECTS ON HUMANS:



MUTAGENIC EFFECTS:
OTHER TOXIC EFFECTS ON HUMANS:

Mutagenic for bacteria and/or yeast.
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: Not available
SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS:
SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS:

Not available

ACUTE POTENTIAL HEALTH EFFECTS:

SKIN:
EYES:
INGESTION:
INHALATION:

May cause skin irritation
May cause eye irritation
May cause gastrointestinal tract irritation
Inhalation of mist or vapor may cause respiratory tract irritation.

The toxicological properties of this substance have not been fully investigated.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
BOD5 AND COD:
PRODUCTS OF BIODEGRADATION:

Not available
Not available
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

UN NUMBER:
PROPER SHIPPING NAME:
PACKING GROUP:

1993
Combustible liquid n.o.s. (Anise star oil, natural, FG) III

15. REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS:
OTHER REGULATIONS:
OSHA:

TSCA 8(b) inventory: Anise Oil

OTHER CLASSIFICATIONS:
WHMIS (Canada):
DSCG (EEC):

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Not controlled under WHMIS (Canada).

R36/38:
S2:
S46:

Irritating to eyes and skin.
Keep out of the reach of children.
If swallowed, seek medical advice immediately and show this container or label.



BULKNATURALOILS.COM
JEDWARDS
INTERNATIONAL, INC.

HMIS (U.S.A.):

HEALTH HAZARD:	2
FIRE HAZARD:	2
REACTIVITY:	0
PERSONAL PROTECTION:	h

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH:	2
FLAMMABILITY:	2
REACTIVITY:	0

SPECIFIC HAZARD:

PROTECTIVE EQUIPMENT:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

16. OTHER INFORMATION

Essential oils must be diluted prior to use. It is the sole responsibility of the user to determine the method and amount of dilution required for safe use, which may vary depending on the nature of the intended use. Keep away from children and pregnant women.

The information provided above is intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Although Jedwards International, Inc. believes the above information to be accurate based on the information available to Jedwards, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Jedwards meets their quality requirements and is appropriate for the use to which the product is to be put. Use and purchase of this material is subject to Jedwards International, Inc. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.