

SAFETY DATA SHEET

Version	1	Total Pages	7
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers:

Product name:	Calamus Oil
CAS Number:	8015-79-0

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses:	Manufacturing
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1.3 Details of the supplier of the safety data sheet:

Company Name:	Essential 3
Company Address:	312 N Main St Suite A Phoenix, OR 97535 (USA)
Company Telephone:	(541-858-3313)
Company Fax Number:	(541-279-1989)

1.4 Emergency telephone number:

24-Hour Emergency Number:	(800) 255-3924 (CHEMTEL)
International Emergency Number:	(813) 248-0585 (CHEMTEL)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Acute toxicity (Category 4)	H304
Acute aquatic toxicity (Category 3)	H412

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

2.2 GHS Label elements, including precautionary statements:

Pictograms:	
Signal Word:	WARNING

Hazard Statement(s):

H302	Harmful if swallowed
H412	Harmful to aquatic life with long-lasting effects.

Precautionary Statement(s):

P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

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P330	Rinse mouth.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name:	Calamus Oil
Synonyms:	<i>Acorus calamus</i>
CAS Number:	8015-79-0

Hazardous Components:

Component:	Calamus Oil
Classification:	Acute. Tox. 4; Aquatic Acute 3; H302; H412
Concentration:	</=100%

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into 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:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see Section 2.2 and/or Section 11).

4.3 Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture:

No data available.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information:

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see Section 8.

6.2 Environmental precautions:

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

6.3 Methods and materials for containment and cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

For disposal see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 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 buildup of electrostatic charge. For precautions see Section 2.2.

7.2 Conditions for safe storage, including incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s):

Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Components with workplace control parameters:

Component	CAS No.	Value	Control parameters	Basis
Calamus Oil	8015-79-0	TWA	No data available	USA NIOSH Recommended Exposure Limits

8.2 Exposure controls:

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment:

Eye/Face Protection:	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
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Skin Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching 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:	Impervious clothing
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Yellow to Orange, Semi-Opaque, Mobile Liquid
Odor:	Herbaceous, Spicy, Clove
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	125°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other safety information:

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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No data available

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:

No data available. In the event of fire see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:	Inhalation – No data available Eye contact – No data available Skin contact – No data available Ingestion – No data available
Skin corrosion/irritation:	Skin irritation – No data available
Eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	<u>IARC</u> : 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. <u>ACGIH</u> : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. <u>NTP</u> : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. <u>OSHA</u> : No component of this product present at levels 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
Additional information:	No data available

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

SECTION 12: ECOLOGICAL INFORMATION

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12.1 Toxicity:

No data available

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)	Not Dangerous Goods
IMDG	Not Dangerous Goods
IATA	Not Dangerous Goods

SECTION 15: REGULATORY INFORMATION

SARA 302 Components	No chemicals in the material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Sections 313.
SARA 311/312 Hazards	Acute Health Hazard
Massachusetts Right To Know Components	Asarones
Pennsylvania Right To Know Components	Asarones
New Jersey Right To Know Components	Asarones
California Prop. 65 Components	Asarones

SECTION 16: OTHER INFORMATION

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Full text of H-Statements referred to under Sections 2 and 3:

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
H302	Harmful if swallowed
H412	Harmful to aquatic life with long-lasting effects.

HMIS Rating:

Health hazard:	2
Flammability:	0
Physical hazard:	2

NFPA Rating:

Health hazard:	2
Fire hazard:	0
Reactivity hazard:	0

Further information:

The above information is believed to be correct but does not purport to be all inclusive and shall be 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. Essential 3 shall not be held liable for any damage resulting from handling or from contact with the above product.