
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Cinnamomum Cassia Essential Oil
Product code	EO-CINNA
Botanical name	Cinnamomum cassia
CAS #	8007-80-5
Product use	Domestic and Industrial
Supplier	WFMed
Address	8245 Backlick Rd Unit D, Lorton VA 22079 USA
Telephone number	888-WFMED-97 (888-936-3397)
Emergency phone number	888-WFMED-97 (888-936-3397)

2. HAZARD(S) IDENTIFICATION**GHS Hazard Classification**

Acute toxicity, oral - Category 4 - H302
Acute toxicity, dermal - Category 3 - H311
Skin corrosion/irritation - Category 2 - H315
Sensitisation, Skin - Category 1 - H317
Serious eye damage/eye irritation - Category 2A - H319

GHS Label Elements

Pictogram
Signal Word



Danger

Hazard Statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary Statements - Prevention

P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P301+P312

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352

If on skin: Wash with plenty of water.

P305+P351+P338

If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing.

P312

Call a POISON CENTER or doctor/physician if you feel unwell.

P330

Rinse mouth.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P361+P364

Take off immediately all contaminated clothing and wash it before reuse.

P362+P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

Precautionary Statements - Storage

P405

Store locked up.

Precautionary Statements - Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards Not Otherwise Classified (HNOC)

No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name	CAS NO	Concentration	GHS-US Classification
Cinnamic aldehyde	104-55-2	>= 80%	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317
Benzaldehyde	100-52-7	1 - 5%	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2, H319 STOT SE 3, H335
Cinnamic Alcohol	104-54-1	1 - 5%	Skin Sens. 1B, H317

4. FIRST-AID MEASURES**Description of first aid measures****General**

Unconscious: maintain adequate airway and respiration. Check the vital functions. Vomiting: prevent asphyxia/aspiration pneumonia. Respiratory arrest: artificial respiration or oxygen. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. Keep watching the victim. Give psychological aid. Cardiac arrest: perform resuscitation. Call a POISON CENTER/doctor. Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Eye Contact

Rinse cautiously with water for several minutes. Do not apply (chemical) neutralizing agents. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Skin Contact

Wash immediately with lots of water (15 minutes)/shower. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air. Allow affected person to breathe fresh air. Allow the victim to rest.

Ingestion

Ingestion of large quantities: immediately to hospital. Rinse mouth with water, do not induce vomiting, call a doctor. Give nothing or a little water to drink. Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

May cause an allergic skin reaction.

Symptoms/effects after skin contact

Tingling/irritation of the skin. Irritation. May cause an allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact

Irritation of the eye tissue. Eye irritation. Causes serious eye irritation.

Chronic symptoms

Skin rash/inflammation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide. Sand. Do not use a heavy water stream.

Specific hazards arising from the chemical

On combustion, forms: carbon oxides (CO and CO₂).

Special protective equipment and precautions for firefighters

Precautionary measures fire

Keep upwind. Consider evacuation.

Firefighting instructions

Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Gloves. Large spills/in enclosed spaces: gas-tight suit. Face shield. Large spills/in enclosed spaces: compressed air apparatus. Protective clothing.

Emergency procedures

Ventilate spillage area. No open flames, no sparks, and no smoking. Mark the danger area. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.

For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures

Ventilate area.

Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up

Methods for containment

Dam up the liquid spill. Stop leakage without risks if possible. Contain leaking substance, pump over in suitable containers.

Methods for cleaning up

Large spills: scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Damaged/cooled tanks must be emptied. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Dispose of materials or solid residues at an authorized site.

7. HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Do not discharge the waste into the drain. Comply with local regulations for disposal. Keep the container tightly closed. Keep away from sources of ignition - No smoking. Remove contaminated clothing. Measure the concentration in the atmosphere. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in processing areas to prevent formation of vapour.

Hygiene measures

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Heat and ignition sources

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage area

Meet the legal requirements. Store in a dark area. Provide for a tub to collect spills. Keep out of direct sunlight.

Special rules on packaging

Clean. Hermetical. Meet the legal requirements. opaque.

Packaging materials

No data available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

No additional information available.

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Avoid all unnecessary exposure.

Materials for protective clothing

No data available.

Hand protection

Gloves. Wear protective gloves/protective clothing/eye protection protective gloves.

Eye protection

Face shield. Safety glasses. Chemical goggles or safety glasses.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of inadequate ventilation wear respiratory protection. Gas mask with filter type. Wear appropriate masks.

Environmental exposure controls

Avoid release to the environment.

Other information

Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Yellow-brown
Odor	Characteristic
Flash point	194 °F
Vapour pressure	0.1 mm Hg 20 °C
Relative density	1.054
Solubility	Soluble in oil. Poorly soluble in water.

10 . STABILITY AND REACTIVITY

Reactivity

On combustion, forms: carbon oxides (CO and CO₂).

Chemical stability

Stable under normal conditions. Not established.

Possible hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Cassia oil (8007-80-5)	ATE US (oral)	500 mg/kg bodyweight
	ATE US (dermal)	300 mg/kg bodyweight
CINNAMIC ALDEHYDE (104-55-2)	ATE US (dermal)	1100 mg/kg bodyweight
Benzaldehyde (100-52-7)	ATE US (oral)	500 mg/kg bodyweight
	ATE US (vapours)	11 mg/l/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified. Based on available data, the classification criteria are not met.

STOT-single exposure

Not classified.

STOT-repeated exposure

Not classified.

Aspiration hazard

Not classified.

Potential adverse human health effects and symptoms

Harmful in contact with skin.

Symptoms/effects after inhalation

May cause an allergic skin reaction.

Symptoms/effects after skin contact

Tingling/irritation of the skin. Irritation. May cause an allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.

12. ECOLOGICAL INFORMATION

Toxicity**Ecology - general**

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecology - water

No data available.

CINNAMIC ALDEHYDE (104-55-2)

LC50 fish 1 > 10 mg/l (96 h; Pisces)

CINNAMIC ALCOHOL (104-54-1)

LC50 fish 1 > 10 mg/l (96 h; Pisces; Estimated value)
EC50 Daphnia 1 > 10 mg/l (48 h; Daphnia magna; Estimated value)

Persistence and degradability**Cassia oil (8007-80-5)**

Persistence and degradability No data available. Not established.

CINNAMIC ALDEHYDE (104-55-2)

Persistence and degradability Readily biodegradable in water. Not established.

Benzaldehyde (100-52-7)

Persistence and degradability Not established.

CINNAMIC ALCOHOL (104-54-1)

Persistence and degradability Readily biodegradable in water. Not established.

Bioaccumulative potential**Cassia oil (8007-80-5)**

Bioaccumulative potential No data available. Not established.

CINNAMIC ALDEHYDE (104-55-2)	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low bioaccumulation potential. Not established.
Benzaldehyde (100-52-7)	
Bioaccumulative potential	Not established.
CINNAMIC ALCOHOL (104-54-1)	
Log Pow	1.95
Bioaccumulative potential	Not established. Low bioaccumulation potential.
Mobility in soil	
No data available.	
Other adverse effects	
No data available.	

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.

Additional information

Hazardous waste.

Ecology - waste materials

Avoid release to the environment.

14. TRANSPORT INFORMATION

US DOT (Land)

Transport document description	UN2810 Toxic, liquids, organic, n.o.s. (Cassia Oil), 6.1, III
UN-No.(DOT)	UN2810
Proper Shipping Name (DOT)	Toxic, liquids, organic, n.o.s. Cassia Oil
Class (DOT)	6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132



Hazard labels (DOT)	6.1 - Poison
Packing group (DOT)	III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	203
DOT Packaging Bulk (49 CFR 173.xxx)	241
DOT Symbols	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the

	degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
	TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	220 L
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	153
Other information	No supplementary information available.

Transportation of Dangerous Goods

No additional information available

Transport by sea

UN-No. (IMDG)	2810
Proper Shipping Name (IMDG)	TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	6.1 - Toxic substances
Packing group (IMDG)	III - substances presenting low danger

Air transport

UN-No. (IATA)	2810
Proper Shipping Name (IATA)	Toxic liquid, organic, n.o.s.
Class (IATA)	6.1 - Toxic Substances
Packing group (IATA)	III - Minor Danger

15. REGULATORY INFORMATION

US Federal regulations

CINNAMIC ALDEHYDE (104-55-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Benzaldehyde (100-52-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

CINNAMIC ACID (621-82-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

CINNAMIC ALCOHOL (104-54-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Coumarin (91-64-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations

Canada

CINNAMIC ALDEHYDE (104-55-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Benzaldehyde (100-52-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

16. OTHER INFORMATION

Creation date: 7/13/2017

Revision date: 1/7/2021

Full text of H-statements

H227	Combustible liquid
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Hazard Rating

Health	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	B - Safety glasses, Gloves

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