

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/09/2013 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: Cassia Oil
CAS No	: 8007-80-5
Product code	: C0500
Synonyms	: China oil / Chinese cinnamon oil / oil of cassia / oil of Chinese cinnamon / oil of cinnamon (=oil of Cinnamomum cassia) / oils, cassia / oils, Cinnamomum cassia
BIG no	: 07462
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
1.3. Details of the supplier of the safety d	lata sheet
CHEMTEX USA 27-29 Dwight Place Fairfield, 07004 - USA T 862-702-8900 - F 862-702-8180 <u>contact@chemtexusa.com</u> - <u>www.chemtexusa.com</u>	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: CHEMTEL:(800)255-3924
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	xture

### **Classification (GHS-US)**

Flam. Liq. 4	H227
Acute Tox. 3 (Dermal)	H311
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317

Full text of H-phrases: see section 16

2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS06 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H227 - Combustible liquid H311 - Toxic in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P261 - Avoid breathing dust, fume, mist, gas, spray, vapors P264 - Wash skin thoroughly after handling P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear eye protection, face protection, protective clothing, protective gloves 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 doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see see supplemental aid on this label) 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 skin irritation persists: Get medical advice/attention P361 - Take off immediately all contaminated clothing P362 - Take off contaminated clothing and wash it before reuse</li> </ul>
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	P363 P370 P403 P405 P501 colled	P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste		
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS-US	)			
Not applicable	,			
SECTION 3: Composition/informat	tion on in	gredients		
3.1. Substance				
Substance type	: UVCI	В		
Name	: Cass	sia oil		
CAS No	: 8007	-80-5		
Name		Product identifier	%	Classification (GHS-US)
Cinnamic aldehyde		(CAS No) 104-55-2	78	Skin Irrit. 2, H315
Full toxt of H phrases: and partian 16				Skin Sens. 1, H317
Full text of H-phrases: see section 16 3.2. Mixture				
Not applicable				
SECTION 4. Einst aid massures				
SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general	: Chec			te airway and respiration. Respiratory
4.1. Description of first aid measures	: Chec arres with I Vomi warm physi	t: artificial respiration or oxygen. Ca laboured breathing: half-seated. Vio iting: prevent asphyxia/aspiration pr hing up). Keep watching the victim. ical strain. Depending on the victim th to an unconscious person. If you	Irdiac arrest: perf tim in shock: on l neumonia. Prevei Give psychologic s condition: docto	orm resuscitation. Victim conscious his back with legs slightly raised. nt cooling by covering the victim (no cal aid. Keep the victim calm, avoid
4.1. Description of first aid measures	: Chec arres with I Vomi warm physi mout possi	t: artificial respiration or oxygen. Ca laboured breathing: half-seated. Vio iting: prevent asphyxia/aspiration pr hing up). Keep watching the victim. ical strain. Depending on the victim th to an unconscious person. If you	ardiac arrest: perf tim in shock: on l neumonia. Prever Give psychologic s condition: doctr feel unwell, seek	form resuscitation. Victim conscious his back with legs slightly raised. Int cooling by covering the victim (no cal aid. Keep the victim calm, avoid or/hospital. Never give anything by medical advice (show the label where
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No additional information available

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Fire extinguishing agents: no data available. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: No unsuitable extinguishing media known. Do not use a heavy water stream.
5.2. Special hazards arising from the su	ubstance or mixture
Fire hazard	: DIRECT FIRE HAZARD. No data available on direct fire hazard. INDIRECT FIRE HAZARD. No data available on indirect fire hazard. Combustible liquid.
Explosion hazard	<ul> <li>DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard. May form flammable/explosive vapor-air mixture.</li> </ul>
Reactivity	: On heating/burning: release of carbon monoxide - carbon dioxide.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Take account of toxic fire-fighting water. 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. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
	quipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personnel	
Protective equipment	<ul> <li>Gloves. Face-shield. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Large spills/in enclosed spaces: gas-tight suit.</li> </ul>
Emergency procedures	: Mark the danger area. No naked flames. Large spills/in confined spaces: consider evacuation. Wash contaminated clothes. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent soil and water pollution. Prevent spread public waters.	ling in sewers. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or
6.3. Methods and material for containm	ent and cleaning up
For containment	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply

For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Take account of toxic/corrosive precipitation water. Heat exposure: dilute toxic gas/vapour with water spray.
Methods for cleaning up	: Damaged/cooled tanks must be emptied. Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. **Reference to other sections** 

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	Evaporates little, spraying readily produces toxic levels. Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces No smoking.

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Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.
Incompatible products	: Strong bases. strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
Storage area	: Store in a dark area. Keep out of direct sunlight. Keep locked up. Provide for a tub to collect spills. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: hermetical. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Cassia Oil (8007-80-5)		
ACGIH	Not applicable	
OSHA	Not applicable	
Cinnamic aldehyde (104-55-2	2)	
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: No data available. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand protection	: Gloves. Wear protective gloves.
Eye protection	: Face shield. Chemical goggles or safety glasses.
Skin and body protection	: Protective clothing. Wear suitable protective clothing.
Respiratory protection	: Gas mask with filter type A. High vapour/gas concentration: self-contained respirator. Wear approved mask.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties		
9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Yellow-brown On exposure to air: turns brown	
Odor	: Cinnamon odour	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: 91.67 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Poorly soluble in water. Soluble in oil. Soluble in propyleneglycol.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Other properties	: Gas/vapour heavier than air at 20°C.
<b>SECTION 10: Stability and reactivit</b>	y .
10.1. Reactivity	
On heating/burning: release of carbon monoxid	de - carbon dioxide.
10.2. Chemical stability	
Unstable on exposure to air. Combustible liquid	d. May form flammable/explosive vapor-air mixture.
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperate	tures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

### : Dermal: Toxic in contact with skin.

Cassia Oil (8007-80-5)		
LD50 oral rat	2800 mg/kg (Rat)	
LD50 dermal rabbit	320 mg/kg (Rabbit)	
ATE US (oral)	2800.000 mg/kg body weight	
ATE US (dermal)	320.000 mg/kg body weight	
Cinnamic aldehyde (104-55-2)		
LD50 oral rat	2220 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
ATE US (oral)	2220.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
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Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Toxic in contact with skin.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Tingling/irritation of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Irritation of the eye tissue. Causes serious eye irritation.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: No data available on ecotoxicity.
Cinnamic aldehyde (104-55-2)	
LC50 fish 1	> 10 mg/l (96 h; Pisces)
12.2. Persistence and degradability	
Cassia Oil (8007-80-5)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
Cinnamic aldehyde (104-55-2)	
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
Cassia Oil (8007-80-5)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
Cinnamic aldehyde (104-55-2)	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
No additional information available	

No additional information available

SECTION 13: Disposal considerations

### 12.5. Other adverse effects

Effect on the	global	warming
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: No known ecological damage caused by this product.

Other information

: Avoid release to the environment.

13.1. Waste treatment methods	
Waste disposal recommendations	: Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Additional information	: Hazardous waste according to Directive 2008/98/EC. Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.
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## **SECTION 14: Transport information**

### Department of Transportation (DOT)

Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
UN-No.(DOT)	: UN2810
Proper Shipping Name (DOT)	: Toxic, liquids, organic, n.o.s.
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison inhalation hazard
	6
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)	<ul> <li>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).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
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"
Additional information	
Other information	: No supplementary information available.
ADR	
Transport document description	: UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E)
Packing group (ADR)	: 111
Class (ADR)	: 6.1 - Toxic substances
Hazard identification number (Kemler No.)	: 60
Classification code (ADR)	: T1
Hazard labels (ADR)	: 6.1 - Toxic substances
	6
Orange plates	- <b>60</b>

2810

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Tunnel restriction code (ADR)	: E
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
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

Cassia Oil (8007-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Dermal)H312Skin Irrit. 2H315Skin Sens. 1H317Eye Irrit. 2H319Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R24 Xi; R36/38 Full text of R-phrases: see section 16

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Other information

: None.

#### Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H227	Combustible liquid
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

Disclaimer:

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