

Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 22 June 2009
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1. PRODUCT IDENTIFICATION

Trade Name (as labeled):	Eucalyptol
Chemical Name/Classification:	1,3,3- Trimethyl-2-Oxabicyclo [2,2,2]- Octane
Product Identifier (Part/Item Number):	10501
U.N. Number:	UN 1197
U.N. Dangerous Goods Classification:	3, PGIII
Recommended Use:	Flavoring
Restrictions on Use:	Professional use only
Manufacturer/Supplier Name:	Sultan Healthcare
Manufacturer/Supplier Address:	1301 Smile Way York, PA 17404
Manufacturer/Supplier Telephone Number:	1-201-871-1232 or 800-637-8582 (Product Information)-
Emergency Contact Telephone Number:	800-535-5053 (INFOTRAC) 1-352-323-3500 (Outside the United States – Call Collect)
Email address:	customer.service@sultanhc.com

2. HAZARD(s) IDENTIFICATION

Hazard/Danger Classification (Regulation EC) No. 1272/2008 [CLP]:

Health	Environmental	Physical
Eye Irritant Category 2A	None	Flammable Liquid Category 3

EU Classification (67/548/EEC as amended): Irritant (Xi)
EU Risk (R) and Safety (S) Phrases: R10, R36, S25
Refer to Section 16 for the full text of the EU Classifications and R Phrases.

Labeling Elements:

Signal Word: Warning

Hazard Statements	Precautionary Statements
H226 Flammable liquid and vapor H319 Causes serious eye irritation.	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical, ventilating and lighting equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P370 + P378 In case of fire: Use carbon dioxide, foam or dry chemical for extinction.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of container / contents to approved disposal site in accordance with all local and national regulations.</p>



Contains Eucalyptol

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # / EC#	IUPAC Name	WT %
Eucalyptol	470-82-6 / 207-431-5	2,2,4-trimethyl-3-oxabicyclo [2.2.2]octane	100

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Immediately flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. If symptoms persists or develop, get medical attention.

Inhalation	None needed under normal use conditions. Remove the victim to fresh air. If irritation persists or develop, get medical attention.
Ingestion	If swallowed, rinse mouth with water. Do Not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.
Most important symptoms of exposure	Causes eye irritation. Ingestion of may cause epigastric pain, vomiting, and CNS depression.
Other	None known.
Note to Physicians (Treatment, Testing, and Monitoring): Treatment of overexposure should be directed at the control of symptoms and clinical conditions.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use carbon dioxide, foam or dry chemical. Use water to cool exposed containers and structures and disperse flammable vapors.		
Fire Fighting Procedures:	Cool fire exposed containers and structures with water.		
Specific Hazards Arising from the Chemical:	Flammable liquid and vapor. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Vapors may be explosive in confined areas and may collect in low areas. Burning generates oxides of carbon.		
Precautions for Fire Fighters:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.		
Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wear eye protection and other suitable protective clothing (see Section 8) Eliminate all sources of ignition. Ventilate the area.
Environmental Precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.
Methods and Materials for Containment and Clean-up: Use non-sparking tools and equipment. Collect using an inert non-combustible absorbent material and place in appropriate containers.

Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid eye and skin contact. Avoid breathing vapors. Use only with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use. Keep product away from heat, sparks and all other sources of ignition. Electrically bond and ground transfer equipment, Use appropriately rated electrical equipment in areas where this material is handled and stored. Keep containers closed when not in use.

Empty containers retain product residue. Follow all precautions in SDS when handling empty containers.

Conditions for Safe Storage: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

Flammable liquid! Keep container away from excessive heat, sparks and open flames. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Eucalyptol	United States	None established
	Germany	None established
	United Kingdom	None established
	France	None established
	Spain	None established
	Italy	None established
	European Union	None established

Biological Exposure Limits: None Established

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Wear safety glasses or goggles to avoid eye contact.

Specific Skin Protection: Wear impervious gloves if needed to avoid prolonged or repeated skin contact.

Specific Respiratory Protection: None required under normal use conditions.

Specific Thermal Hazards: Not applicable

Recommended Personal Protective Equipment:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			
Environmental Exposure Controls: None required for normal use.			
General Hygiene Considerations and Work Practices: Avoid contact with the eyes, skin and clothing. Wash thoroughly with soap and water after handling.			
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not applicable for product.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to pale yellow liquid	Explosive limits:	Not available
Odor:	Camphor	Vapor pressure (mmHg @ 20°C) :	1.4
Odor threshold:	Not available	Vapor density:	Not available
pH:	Neutral	Specific Gravity: (H₂O = 1)	0.922
Melting/freezing point:	34.7°F (1.5°C)	Solubility:	Not soluble in water, soluble in alcohol, chloroform, and ether
Initial boiling point and range:	348.8- 350.6°F (176-177°C)	Partition coefficient: n-octanol/water:	Not available
Flash point:	118°F (48°C)	Auto-ignition temperature:	Not available
Evaporation rate:	Not available	Decomposition temperature:	Not available
Flammability:	Flammable liquid	Viscosity:	Not available
Explosive Properties:	None	Oxidizing Properties:	None

10. STABILITY AND REACTIVITY

Reactivity: Will not polymerize or react dangerously.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Reaction with oxidizers will generate heat and may cause fire.

Conditions to Avoid: Keep container away from excessive heat, sparks and open flames.

Incompatible materials: Strong oxidizers.

Hazardous Decomposition Products: Burning generates oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Vapors cause eye irritation. Direct eye contact causes irritation.

Skin: No irritation or other adverse effects are expected, with skin contact.

Ingestion: Ingestion of may cause epigastric pain, vomiting, and CNS depression.

Inhalation: Inhalation of vapors may cause mild nose and throat irritation.

Chronic Health Effects: None known.

Carcinogenicity: Using the A/HE mouse primary lung tumor model: Cineole (12 g/Kg/ 8 wk intermittent; Max tolerated dose.) was not positive for tumor induction. None of the other components of this product are listed as carcinogens by OSHA, IARC, ACGIH, NTP or EU Directives.

Mutagenicity: No mutagenic data available.

Medical Conditions Aggravated by Exposure: None known.

Acute Toxicity Data: LD50 Rat oral 2480mg/kg

Reproductive Toxicity Data: No reproductive or teratogenic data available.

Specific Target Organ Toxicity (STOT):

Single Exposure: No data available.

Repeated Exposure: No data available.

12. ECOLOGICAL INFORMATION

Toxicity: No data is available.

Persistence and Degradability: No data is available.

Bio-accumulative Potential: No data is available.

Mobility in Soil: No data is available.

Other Adverse Effects: None known.

Results of PBT/vPvB Assessment: Not required.

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with local and national environmental regulations

Properties (Physical/Chemical) Affecting Disposal: None known.

Waste Treatment Recommendations: None needed for normal anticipated use.

14. TRANSPORT INFORMATION

UN Number:	ADR/RID: UN1197	IMDG: UN1197	IATA: UN1197	DOT: None
UN proper shipping name:	ADR/RID: Flavoring, Liquid IMDG: Flavoring, Liquid IATA: Flavoring, Liquid DOT: Not regulated in non-bulk containers (119 gallons or smaller) In bulk containers this is regulated as a combustible liquid (NA1993)			
Transport hazard class(es):	ADR/RID: 3	IMDG: 3	IATA: 3	DOT: None
Packaging group:	ADR/RID: PG III	IMDG: PG III	IATA: PG III	DOT: None
Environmental hazards:	ADR/RID: No	IMDG Marine pollutant: No	IATA: No	DOT: No
Special precautions for user: Flammable liquid				

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the ingredients in this product are listed on the EPA TSCA Inventory.

OSHA Hazard Classification: Flammable, Irritant

Clean Water Act (CWA): Not Listed

Clean Air Act (CAA): Not Listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	Yes	Pressure Hazard:	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	Yes		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian DSL.

Canadian Workplace Hazardous Materials Information System (WHMIS): Class B - Division 3 (Combustible Liquid), Dlass D-2-B (Eye Irritant)

EU REACH: The substances in this product comply with the EU REACH regulation as applicable.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

Xi Irritant
R10 Flammable.
R36 Irritating to eyes
S25 Avoid contact with eyes.

Date of SDS Preparation/Revision: April 09, 2012

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.