

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Rosemary EO
Robertet Product Code: 00021610

CAS No. 8000-25-7

Recommended use of the chemical and restrictions on use

Recommended use Aromatic Ingredient (s). For Industrial Use Only.
Uses advised against Do not ingest as such. Avoid eye contact.

Details of the supplier of the safety data sheet

Robertet, Inc.
 400 International Drive
 Mount Olive, NJ 07828 USA
 TEL: 201-337-7100
 E-mail: reginc@robertetusa.com

Emergency telephone number

Emergency Telephone Number Chemtrec 1-800-424-9300 (24 hrs)
 Outside of the USA and Canada (703) 527-3887. Collect calls accepted

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification

Acute toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1B
Specific target organ toxicity (single exposure)	Category 2
Aspiration Toxicity	Category 1
Flammable liquids	Category 3

Label elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed
 Causes Skin Irritation
 Causes serious eye irritation
 May cause an allergic skin reaction
 May cause damage to organs
 May be fatal if swallowed and enters airways
 Flammable liquid and vapor



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting
Rinse mouth
In case of fire: Use CO₂, dry chemical, or foam for extinction

Alcohol Solubility:

Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

May be harmful in contact with skin
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

Interactions with Other Chemicals

Classification not possible

Principle Routes of Exposure

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	GHS Classification
2-Oxabicyclo[2.2.2]octane, 1,3,3-trimethyl-	470-82-6	50% - 60%	Skin Corr. 3 (H316)

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			Flam. Liq. 3 (H226) Acute Tox. Oral 5 (H303) Skin Sens. 1B (H317)
dl-Camphor	21368-68-3	10% - 20%	Acute Tox. Inhalation - dust and mist 4 (H332) Acute Tox. Oral 4 (H302) Aquatic Acute 3 (H402) Flam. Sol. 2 (H228) STOT SE Inhalation 2 (H373)
Pinene, alpha	80-56-8	10% - 20%	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Acute Tox. Oral 4 (H302) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226)
Pinene, beta	127-91-3	5% - 10%	Flam. Liq. 3 (H226) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Asp. Tox. 1 (H304)
Caryophyllene beta	87-44-5	5% - 10%	Skin Sens. 1B (H317) Skin Corr. 3 (H316) Asp. Tox. 1 (H304)
Camphene	79-92-5	5% - 10%	Flam. Sol. 2 (H228) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Eye Irrit. 2B (H320)
Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (r)	5989-27-5	1.0% - 5.0%	Flam. Liq. 3 (H226) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Asp. Tox. 1 (H304)
Terpineol	8000-41-7	1.0% - 5.0%	Flam. Liq. 4 (H227) Aquatic Acute 3 (H402) Eye Irrit. 2A (H319) Acute Tox. Oral 5 (H303) Skin Irrit. 2 (H315)
Cymene p	99-87-6	1.0% - 5.0%	Aquatic Acute 2 (H401) Acute Tox. Oral 5 (H303) Asp. Tox. 1 (H304) Skin Corr. 3 (H316) Flam. Liq. 3 (H226) Aquatic Chronic 2 (H411)
Myrcene (natural occurring)	123-35-3	1.0% - 5.0%	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Eye Irrit. 2A (H319) Asp. Tox. 1 (H304)
1,6-octadien-3-ol,3,7-dimethyl	78-70-6	1.0% - 5.0%	Skin Sens. 1B (H317) Aquatic Acute 3 (H402) Eye Irrit. 2A (H319) Acute Tox. Oral 5 (H303) Flam. Liq. 4 (H227) Skin Irrit. 2 (H315)
Bicyclo{ 2,2,1} heptan-2-ol, 1,7,7-trimethyl-,acetate,endo	76-49-3	1.0% - 5.0%	Flam. Liq. 4 (H227) Aquatic Acute 2 (H401) Skin Corr. 3 (H316)
4-Isopropylidene-1-methylcyclohexene	586-62-9	0.1% - 1.0%	Skin Corr. 3 (H316) Flam. Liq. 4 (H227) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Acute Tox. Oral 5 (H303) Asp. Tox. 1 (H304)
Carene-3	13466-78-9	0.1% - 1.0%	Asp. Tox. 1 (H304) Skin Irrit. 2 (H315)

			Skin Sens. 1 (H317) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Acute Tox. Oral 5 (H303)
1-Octen-3-ol	3391-86-4	< 0.1%	Acute Tox. Oral 4 (H302) Eye Irrit. 2A (H319) Acute Tox. Dermal 5 (H313) Skin Irrit. 2 (H315) Acute Tox. Inhalation - dust and mist 4 (H332) Aquatic Acute 1 (H400) Flam. Liq. 4 (H227)

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash skin with soap and water.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water and afterwards drink plenty of water.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Water spray. Use: Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media

Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Sensitivity to static discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Clean-up Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Dam up.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours or spray mist. Use product only in closed system.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	OSHA PEL (TWA)	ACGIH TLV (TWA)	ACGIH TLV (STEL)	California PEL (TWA)
dl-Camphor 21368-68-3	2 MGM3	2 PPM	3 PPM	2 MGM3
Pinene, alpha 80-56-8	-	20 PPM	-	-
Pinene, beta 127-91-3	-	20 PPM	-	-
Carene-3 13466-78-9	-	20 PPM	-	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Tight sealing safety goggles.

Skin and body protection No special technical protective measures are necessary.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Colorless to pale yellow
Odor: Characteristic
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Not Determined	None known

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Melting Point / Melting Range	Not Determined	None known
Boiling Point / Boiling Range (°C)	>35	None known
Flash Point:	43 °C / 109 °F	CC (closed cup)
Evaporation rate	Not Determined	None known
Flammability (solid, gas)	Not Determined	None known
Vapor Pressure (mm Hg @ 20°C):	Not Determined	None known
Vapor Density	Not Determined	None known
Relative density	Not Determined	None known
Specific Gravity @ 20/20 °C:	0.9070-0.9200	RTM-101
Water Solubility:	Not Determined	None known
Solubility in other solvents	Not Determined	None known
Partition coefficient: n-octanol/water	Not Determined	None known
Autoignition Temperature	Not Determined	None known
Decomposition temperature	Not Determined	None known
Decomposition temperature	Not Determined	None known
Viscosity	Not Determined	None known
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other information

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use. Keep away from oxidizing agents and strongly acid or alkaline materials.

Chemical Stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heating in air.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known information
Inhalation	No Data Available.
Eye Contact	No Data Available.
Skin Contact	No Data Available.
Ingestion	No Data Available.

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Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50	1,610.00 mg/kg
Mist	10.00 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known.

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID No	1197
Proper shipping name	Extracts, flavoring, liquid
Hazard Class	3
Packing Group	III

IMDG/IMO

UN/ID No	1197
Proper shipping name	Extracts, flavouring, liquid
Hazard Class	3
Packing Group	III
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
EmS No.	F-E, S-D

IATA/ICAO

UN-No	1197
Proper shipping name	Extracts, flavouring, liquid
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

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USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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End of Safety Data Sheet