



SAFETY DATA SHEET

Issue Date 16-Feb-2011

Revision Date 25-Dec-2016

Version 5

1. IDENTIFICATION

1.1. Product identifier

Product Name Confidential Material.

Other means of identification

Product Code 23639/17167OEO
EC No. 232-433-8
CAS No. 8008-57-9 / 8028-48-6
FEMA 2825

UN/ID no. 1169
Contains Limonene, Myrcene

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

Recommended Use No information available.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address

Treatt USA
4900 Lakeland Commerce Parkway
Lakeland FL 33805
Florida
United States
Telephone: +1 863 668 9500
Toll Free: (800) 866 7704
Fax: +1 863 668 3388

1.4. Emergency telephone number

Emergency Telephone United States / Canada : NCEC +1 202 464 2554
See Section 16 for a full list of emergency numbers

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

2.2. Label elements

**Signal word**

Danger

Hazard statements

Causes skin irritation

May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Avoid release to the environment

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

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

Wash contaminated clothing before reuse

Do NOT induce vomiting

Collect spillage

Precautionary Statements - Storage

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)

Not applicable

Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS No.	Weight-%	Trade Secret
Limonene	5989-27-5	95-100	*
Myrcene	123-35-3	1-2.5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

4.1. Description of first aid measures**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated

	clothes and shoes.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Inhalation	Remove to fresh air.
Ingestion	Clean mouth with water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Symptoms Skin disorders. May cause an allergic skin reaction.

See Section 11: TOXICOLOGICAL INFORMATION

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

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation, especially in confined areas Use personal protection recommended in Section 8
<u>General Hygiene Considerations</u>	Handle in accordance with good industrial hygiene and safety practice When using do not eat, drink or smoke

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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8.2. Exposure controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.
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Personal protective equipment

Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves
Skin and body protection	Wear suitable protective clothing.
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	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water Local authorities should be advised if significant spillages cannot be contained

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Color	colorless or light green
Physical state	liquid
Odor	No information available
Odor threshold	No information available
<u>Property</u>	<u>Values</u>
pH	No information available
Melting point/freezing point	-74 °C °C
Boiling point / boiling range	176 °C 348.8
Flash point	42 °C / 107.6 °F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	<3 mmHg @ 14 °C 20 mmHg @ 68.2 °C

Vapor density	4.70
Specific Gravity	0.843 @ 20 °C
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	5.053 (estimated)
Autoignition temperature	237 °C
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

9.2. Other information

Softening point	No information available
Molecular weight	136.23
VOC Content (%)	No information available
Density	0.843 @ 20 °C
Bulk density	No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks
Exposure to air or moisture over prolonged periods

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal use conditions.

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	Potential for aspiration if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limonene	-	> 5 g/kg (Rabbit)	-
Myrcene	> 5 g/kg (Rat)	> 5 g/kg (Rabbit)	-

Numerical measures of toxicity - Product Information**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Limonene 5989-27-5	-	Group 3	-	X

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Symptoms

Skin disorders

May cause an allergic skin reaction

12. ECOLOGICAL INFORMATION**12.1. Toxicity****Ecotoxicity**

Harmful to aquatic life

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient
Limonene 5989-27-5	5.053

12.4. Mobility in soil

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Improper disposal or reuse of this container may be dangerous and illegal.

Chemical Name	California Hazardous Waste Status
Limonene 5989-27-5	Toxic

14. TRANSPORT INFORMATION

DOT

UN/ID no. 1169
 Proper shipping name EXTRACTS, AROMATIC, LIQUID
 Hazard Class 3
 Packing Group III

IATA

UN/ID no. 1169
 Proper shipping name EXTRACTS, AROMATIC, LIQUID
 Hazard Class 3
 Packing Group III

IMDG

UN/ID no. 1169
 Proper shipping name EXTRACTS, AROMATIC, LIQUID
 Hazard Class 3
 Packing Group III
 Marine pollutant This material meets the definition of a marine pollutant

ADR/RID

UN/ID no. 1169
 Proper shipping name EXTRACTS, AROMATIC, LIQUID
 Hazard Class 3
 Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US 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

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**Emergency telephone number**

Global / English speaking counties : NCEC +44 1865 407333
Latin Americas : NCEC +1 215 207 0061
United States / Canada : NCEC +1 202 464 2554
Mexico: NCEC +52 55 5004 8763
Brazil: NCEC +55 11 3197 5891
Chile: NCEC +56 2 2582 9336
Columbia: NCEC +57 1 508 737
Argentina: NCEC + 54 11 5984 3690
China: NCEC +86 512 8090 3042
China (Mainland): NRCC +86 532 8388 9090
Australia: NCEC +61 2 8014 4558
New Zealand: NCEC +64 9 929 1483

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Revision Note	No information available

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet