

HEALTH 2
FLAMMABILITY 3
REACTIVITY 0

Section 1: IDENTIFICATION

Product Name: **Alpha Pinene (1S), Natural**
 Product Number: **0290200**
 Recommended Use: Flavorings
 Manufacturer: Aurochemicals
 7 Nicoll Street
 Washingtonville, NY 10992- USA
 845-496-6065
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053 (International 1-352-323-3500 collect)

Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards Flammable liquid, Skin sensitizer, Irritant
 GHS Classification Flammable Liquids (Category 3)
 Skin irritation (Category 2)
 Eye irritant (Category 2A)
 Skin sensitization (Category 1)
 Specific target organ toxicity-single exposure (Category 3)
 Acute aquatic toxicity (Category 1)
 Chronic aquatic toxicity (Category 1)

Signal Word: Warning
 Pictogram or written description



Hazard Statement: H226 Flammable liquid and vapor.
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

Precautionary Statement H410 Very toxic to aquatic life with long lasting effects
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P273 Avoid release to the environment
 P280 Wear protective gloves
 P305+ IF IN EYES: Rinse cautiously with water for several minutes
 P351+ Remove contact lenses, if present and easy to do
 P338 Continue rinsing
 P501 Dispose of contents/container to an approved waste disposal plant

HMIS Classification Health Hazard 2
 Flammability 3
 Physical Hazards 0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Ingestion	May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	(-) Pin-2 (3)-ene
Concentration	<=100%
Common Name:	α -Pinene
Synonyms:	(1S)-(-) α -Pinene; (1S,5S)-2-Pinene; (1S,5S)-2-6-6-Trimethylbicyclo[3.1.1]hept-2-ene
CAS #	80-56-8
EC#	232-077-3
Formula	C ₁₀ H ₁₆
Molecular Weight	136.23 g/mol

Section 4: FIRST AID MEASURES

General Advise:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician
Inhalation:	Provide fresh air, Consult a physician
Ingestion:	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface-no smoking.
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special Firefighting Procedures:	Wear self contained breathing apparatus for firefighting if necessary.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon Oxides.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate
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ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Use personal protective equipment.

Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Contain spillage, and then collect using absorbent material and place in container for disposal according to local regulations
Ventilate area	After clean up, wash spill area and ventilate the area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:	These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.
Body Protection:	A complete suit made of Impervious, flame retardant and anti-static clothing should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier
Respiratory Protection:	Required when vapors / aerosols are generated.
Eye Protection:	Wear tightly fitting safety goggles. Wear appropriate eye and face protection.
Hand Protection:	Wear chemically resistant gloves of Nitrile rubber
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Clear, Water White to yellowish liquid
Odor:	Pine
Boiling Point:	155-156°C
Flashpoint:	32°C
Melting Point	-55°C

Safety Data Sheet

Ignition temperature	255°C
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	4 hPa (3mmHg) at 20°C
Specific Gravity @ 25°C:	0.850-0.864
Solubility in Water:	Insoluble in water
Relative vapor density	4.7 – (Air=1.0)
Evaporation Rate	No data available

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, Flames, and sparks
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products:	Fumes formed under fire conditions - Carbon oxides.
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
LD50, Oral	No data available
LC50 Inhalation	No data available
LD50 Dermal	No data available
Other information on acute toxicity:	No data available
Skin corrosion/irritation	Rabbit – skin irritation-24 h
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

Carcinogenicity

IARC	No component of this product present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH,
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	Inhalation: May cause respiratory irritation.
Specific target organ toxicity-repeated exposures (GHS)	No data available

Aspiration Hazards	No data available
Potential Health effects	
Inhalation	May be harmful if inhaled. Causes tract irritation.
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye Irritation
Signs and Symptoms of Exposure	Cough, Shortness of breath, Headache, Nausea, Vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects	No data available
RTECS:	Not available

Section 12: ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life, with very long lasting effects.

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)	UN 2368 Class 3 Packing Group III
Proper shipping name	alpha-Pinene
Reportable Quantity (RQ)	
Marine pollutant	No
Poison Inhalation Hazard	No
IMDG-Classification	UN 2368 Class 3 Packing Group III EMS-No.: F-E, S,E
Proper shipping name	Alpha-PINENE
Marine pollutant	No
IATA-Classification	UN 2368 Class 3 Packing Group III
Proper shipping name	alpha-Pinene

Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid, Skin sensitiser, Irritant
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Safety Data Sheet

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302		
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard		
Massachusetts Right to Know components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know components	(-)-Pin-2(3)-ene	CAS#7785-26-4	Rev. Date:
New Jersey Right to Know components	(-)-Pin-2(3)-ene	CAS#7785-26-4	Rev. Date:
California Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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