# Safety Data Sheet

The Natural Choice for Flavor and Fragrance Ingredients

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|---|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| REACTIVITY | 0 |

## Section 1: IDENTIFICATION

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|---|---|
| Product Name: | **Beta Pinene (1S), Natural** |
| Product Number: | **0290300** |
| Recommended Use: | Flavorings |
| Manufacturer: | Aurochemicals<br>7 Nicoll Street<br>Washingtonville, NY 10992 – USA<br>845-496-6065<br>845-496-6248 Fax |
| Emergency Telephone No.: | 1-800-535-5053<br>(International 1-352-323-3500 collect) |

## Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards: Flammable liquid, Harmful by ingestion, Harmful by skin absorption, Skin sensitiser, 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 toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 4)
Aspiration hazard (Category 1)

Pictogram or written description

Signal Word: Danger

Hazard Statement:

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| H226 | Flammable liquid and vapor. |
| H302+ | Harmful if swallowed or |
| H312+ | In contact with skin or |
| H332 | If inhaled |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Precautionary Statement

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| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |

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| | P280 | Wear protective gloves |
| | P301+ | IF SWALLOWED: Immediately call a POISON CENTER |
| | P310 | Consult a physician |
| | P305+ | IF IN EYES: Rinse cautiously with water for several minutes |
| | P351+ | Remove contact lenses, if present and easy to do |
| | P338 | Continue rinsing |
| | P331 | DO NOT INDUCE vomiting |
| HMIS Classification | Health Hazard | 2 |
| | Flammability | 3 |
| | Physical Hazards | 0 |

Potential Health Effects

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| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. |
| Skin | Harmful if absorbed through skin. Causes skin irritation |
| Eyes | Causes eye irritation |
| Ingestion | Harmful if swallowed. Aspiration hazard if swallowed – can enter lungs and cause damage. |

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

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| Component | (-) Pin-2 (10)–ene |
| Concentration | <=100% |
| Common Name: | β–Pinene |
| Synonyms: | (1S)-(-)β-Pinene; (1S,5S)-2(10)-Pinene; (1S,5S)-6,6-Dimethyl-2-methylenebicyclo[3.1]heptand |
| CAS # | 127-91-3 |
| EC# | 242-060-2 |
| Formula | $C_{10}H_{16}$ |
| Molecular Weight | 136.23 g/mol |

## Section 4: FIRST AID MEASURES

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| 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

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| 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 |

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| 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: ACCIDENTIAL RELEASE MEASURES

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| Personal precautions | Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate 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<br>Ventilate area | Contain spillage, and then collect using absorbent material and place in container for disposal according to local regulations<br>After clean up, wash spill area and ventilate the area well |

## Section 7: HANDLING AND STORAGE

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| 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. |

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 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.<br>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

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| Form: | Liquid |
| Color: | Colorless to pale yellowish |
| Odor: | Characteristic aroma of gum turpentine with a dry, woody or piney, resinous odor of low tenacity |
| Boiling Point: | 164°C |
| Flashpoint: | 35-36°C |
| Melting Point | -61°C lit |
| Ignition temperature | 255°C |
| Lower Explosion Limit | No data available |
| Upper Explosion Limit | No data available |
| Vapor Pressure: | 3 hPa (2mmHg) at 20°C |
| Specific Gravity @ 25°C: | 0.865-0.875 |
| Solubility in Water: | Insoluble in water; soluble in most organic solvents |
| Partition coefficient: n-octanol/water | Soluble in most organic solvents |
| Relative vapor density | 4.7 – (Air=1.0) |
| Evaporation Rate | No data available |

## Section 10: STABILITY AND REACTIVITY

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| 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**

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| 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 | No data available |
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | May cause allergic by skin contact |
| Germ cell mutagenicity | No data available |

**Carcinogenicity**

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| 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. |

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| 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 | No data available |

exposures (GHS)

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| Aspiration Hazards | The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard |
| Potential Health effects | |
| Inhalation | May be harmful if inhaled. Causes tract irritation. |
| Ingestion | Harmful if swallowed. Aspiration hazard if swallowed-can enter lungs and cause damage |
| | Harmful if absorbed through skin. Causes skin irritation |
| Skin | Causes eye Irritation |
| Eyes | |
| Signs and Symptoms of Exposure | 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

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| 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 | No data available |

## Section 13: DISPOSAL CONSIDERATIONS

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

## Section 14: TRANSPORT INFORMATION

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| **DOT (US)** | UN 2319 Class 3 Packing Group III |
| Proper shipping name | Terpene hydrocarbons, n.o.s. |
| Reportable Quantity (RQ) | |
| Marine pollutant | No |
| Poison Inhalation Hazard | No |
| **IMDG-Classification** | UN 2319 Class 3 Packing Group III EMS-No.: F-E, S,D |
| Proper shipping name | TERPENE HYDROCARBONS N.O.S. |
| Marine pollutant | No |
| **IATA-Classification** | UN 2319 Class 3 Packing Group III |
| Proper shipping name | Terpene hydrocarbons, n.o.s. |

## Section 15: REGULATORY INFORMATION

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|---|---|
| OSHA Hazards | Flammable liquid, Harmful by ingestion, Harmful by skin absorption, Skin sensitiser, Irritant |
| 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(10)-ene CAS# 18172-67-3 Rev. Date: |

| | | |
|---|---|---|
| New Jersey Right to Know components | (-)-Pin-2(10)-ene CAS# 18172-67-3 | 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.

| **Issued by:** | **Contact Person:** |
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| Aurochemicals | Deo N. Persaud |
| 7 Nicoll Street | Revised Date: 8/7/2022 |
| Washingtonville, NY 10992 USA | |