Foreverest Resources Ltd

Pine Oil

50, 65, 75%

Pine Oil is a crucial upstream raw material for the specialty chemical industry, with its applications primarily focused on industrial sectors. This product is a by-product generated during the production of terpineol from gum turpentine, obtained through steam distillation of Pinus species. Please note the difference from pine essential oil. The composition of Pine Oil includes α-Terpineol, other cyclic terpene alcohols, pinene monomers, and other terpene hydrocarbons. It possesses a distinctive strong piny odour and is miscible with alcohol. It is characterised by a potent sterilising effect (acting as a phenolic disinfectant, effective against numerous bacterial strains and enveloped viruses), as well as superior abilities in deodorisation, wetness, clearance, and penetration.

Substance Identification

Synonyms	Industrial
CAS	N/A

EINECS	304-455-9
FEMA	N/A
HS.CODE	380590
Molecular Formula	C10H18O
Moleclar Weight	154.25

Application & Uses

- Household & Industrial Cleaners:
  - It serves as a crucial raw material in the production of various household detergents and industrial cleaners, with its excellent cleaning, wetting, penetration, and sterilising capabilities making it an ideal component.
- Paints & Ink Solvents:
  - Widely utilised as a solvent for high-quality inks and coatings, contributing to improved rheology and application performance of these products.
- Ore Flotation Agent:
  - In the mining sector, it acts as an effective foaming agent for ore flotation, particularly suitable for low-concentration flotation processes.
- Phenolic Disinfectant:
  - As a potent phenolic disinfectant, it exhibits significant disinfecting effects against numerous bacterial strains and enveloped viruses.
- Pharmaceutical Ingredient:
  - In the pharmaceutical industry, it is employed as a pharmaceutical ingredient, showing a certain efficacy against pathogens responsible for various diseases, including the common cold, gastroenteritis, cholera, meningitis, whooping cough, and gonorrhoea.

Features & Benefits

- Exceptional Multi-functional Industrial Performance:
  - Primarily applied in the production of household detergents, industrial cleaners, high-quality inks, and paint solvents, owing to its pleasant pine smell, notable antimicrobial power, and excellent solvency. Furthermore, at low concentrations, it can be utilised as an effective foaming agent in ore flotation, expanding its industrial utility.
- Potent Disinfectant & Broad-Spectrum Antimicrobial Action:
  - As a powerful disinfectant, Pine Oil exhibits a significant disinfecting effect against numerous bacterial strains and enveloped viruses. *It is generally not effective against non-enveloped viruses or spores*, a consideration for specific applications.
- Extensive Pharmaceutical Efficacy:
  - As a crucial pharmaceutical ingredient, it kills the causative agents of various diseases, including typhoid, gastroenteritis, rabies, enteric fever, cholera, several forms of meningitis, whooping cough, gonorrhoea, and multiple types of dysentery.
  - Pine Oil is also effective against several of the leading causes of food poisoning.

Sales Specification

ITEM	VALUE	TEST METHOD & UNIT
Appearance	Transparent oily liquid	
Relative Density	0.927	@d20/4
Distillation Range	90 min	@190 to 225°C, % v/v
Moisture	0.5 max	%
Terpene Alcohols, by Dehydration	75 min	%

ITEM	VALUE	TEST METHOD & UNIT
Appearance	Transparent oily liquid	
Relative Density	0.900	@d20/4
Distillation Range	90 min	@170 to 225°C, % v/v
Moisture	1 max	%
Terpene Alcohols, by Dehydration	85 min	%

ITEM	VALUE	TEST METHOD & UNIT
Appearance	Transparent oily liquid	
Relative Density	0.885 to 0.900	@d20/4
Distillation Range	90 min	@168 to 230°C, % v/v
Moisture		%
Terpene Alcohols, by Dehydration	50 min	%

Package

- Galvanized Iron Drum, 180kg, 80 drums per 20’FCL

GHS Hazard Statements

H-Code	no data available
P-Code	no data available
Response	no data available
Storage	no data available
Disposal	no data available

UN Number: UN 2810 | S-phrases: S46;S61;S62;S36/S37 | R-phrases: R10;R43;R65;R20/21/22;R36/38

Storage

- Environmental & Temperature Control:
  - Store in a cool, dry, well-ventilated area, and protect from light.
  - Avoid high temperatures to maintain product stability and prevent decomposition or volatilisation.
  - Keep in a cool, well-ventilated place.
- Container Management & Prevention:
  - Ensure containers are tightly closed to prevent volatilisation and external contamination, and are clearly labelled.
  - Ground all equipment containing the material to prevent static build-up.
- Hazard Isolation:
  - Keep storage areas away from heat, sparks, open flames, and all sources of ignition.
  - This combustible liquid should be stored in a separate safety storage cabinet or room.
  - Keep away from incompatible materials to prevent hazardous reactions.
- Safe Handling & Inspection:
  - Handle carefully, and stack stably.
  - After prolonged storage, always check quality before use.
- Compliance & Emergency Preparedness:
  - Strictly comply with all safety regulations, particularly those pertaining to combustible liquid storage.
  - Ensure emergency plans are in place for unforeseen circumstances.

Relation Products

- alpha-Pinene
- Beta Pinene
- Terpineol 85
- Turpentine

Relation Articles

- Pine Oil & Terpineol applied to disinfectants and household cleaners
- The Green Benefits of Pine Oil
- How does pine oil work in disinfectant cleaners?
- ANTI-VIRUS FUNCTION of ESSENTIAL OILS and PLANT EXTRACTS
- Biological function and mechanism of plant extracts(2)

Remark

The above information is believed to be accurate and presents the best explanation currently available to us. We assume no liability resulting from above content. The technical standards are formulated and revised by customers' requirement and us, if there are any changes, the latest specification will be executed and confirmed in the contract.

Manage consent