



PINEOIL- FROTHER APPLICATION

PINEOIL is a strong frother in flotation industries (sulfides, coal, silicates etc.).

The quality of pine oil is depended on the content of terpene alcohols.

OTHER USES

1. Preparation of film for iron and steels in some oils and melted salts' steams.
2. Wetting and detergency.
3. Resistance of the three types of diphtheria bacillus grades, mitis and intermediate to injurious influence.
4. Removal of mercury from waste water.
5. Anti-fouling paints.
6. Treatment of plastic mixer.
7. Acid washing waste.
8. Glass frosting.
9. Hardening composition for epoxy resins.
10. Liquid composition for deodorizing manure.
11. Detergent for cleaning and dyeing textile material.
12. Composition and process for removing sulfur dioxide from combustion gases.
13. Study on the treatment of waste water from coal processing.
14. As solvent for chloration phenol that uses in treatment of cuted lumbers.
15. preventire in decay of cheesy ferments and other proteins that uses in gumes.
16. In insecticides.
17. In deodorizing materials, detergent for breath, and antibilious sprays for animals.
18. Uses in terpinol perfumes and anion, fenchol and camphor perfumes.
19. In paper industry.

Storage and Handling

Recommended materials to store, handling and distribution PINEOIL are galvanized steel, stainless steel brass, copper, and polymeric (plastic) materials. This product should not be exposed to direct sun light during storage.

Physical Properties	Standard	Results
Appearance	Transparent Liquid	Clear Liquid
Color	-	Yellow to lemon
Specific Gravity (At 20 °C)	0.92-0.94	0.92-0.94
Solubility in water	-	2.5 gr/lit
Boiling point	160-180°C	160-180°C
pH (100%)	5-7	5-7
Flash point	50- 90°C	Confirm
Distillation range	160-225 90 %min	Confirm
Alcohol content	55%,60%,70%,85%,90%,95% (Depend on its grade)	70%

Packaging & Shelf Life

PINEOIL is packed in 220 lit (net: 200 kg), galvanized or steel drum, each 4 drums strapped on a pallet.

Shelf life: PINEOIL has a shelf life of at least two years in room temperature.

Safety

PINEOIL is regarded as practically non-toxic chemical.

Inhalation: Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid immediately.

Ingestion: Rinse mouth with plenty of milk or water (only if victim is conscious and alert). Get medical aid immediately.

Skin Contact: If skin contact occurs, wash the affected area with plenty of water and a neutral soap for a minimum of 5 minutes.

Eye Contact: If eye contact occurs, wash with plenty of clean water or amphoteric eye solution for a minimum of 15 minutes, holding the eyes open, medical advice should be followed.