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MATERIAL SAFETY DATA SHEET FOR

Fir Balsam

Abies Balsamea, Product Reference T223
USA CAS 8021-28-1

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

The oil is steam distilled from the needles of the Fir Balsam. The main constituents are Bornyl Acistate 8-15% .

2. HAZARDOUS IDENTIFICATION:

The hydrocarbon content is 75-85% and therefore the oil is considered hazardous.

3. FIRST AID PROCEDURES:

Skin Contact: Rinse with running water. Remove contaminated clothing.
Eye Contact: Rinse with sterile water or an approved eyewash solution for 15 minutes.
Inhalation: Move to fresh air and rest.
Ingestion: If swallowed do not induce vomiting, seek medical advice immediately and show the label or container.

4. FIRE FIGHTING PROCEDURES:

Suitable Extinguishers: Normal extinguishers can be used (CO₂, powders, foams, halogens).
Unsuitable Extinguishers: Direct water jet.
Fire Hazard: Products of combustion – Oxides of Carbon.

5. ACCIDENTAL RELEASE PROCEDURES:

Safety Clothing: Wear clothing suitable for an emergency.
Environmental Precautions: Contain the leak with earth or sand. Prevent from entering drains and sewers; if this cannot be done advise the local authority.
Clean Up Procedure: Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

6. HANDLING & STORAGE PROCEDURES:

Handling: Avoid spillage and eye contact (gloves and goggles recommended).
Ventilation: Good general ventilation required.
Storage Conditions: Store at ambient temperature in a dark container. Store away from oxidizing substances e.g. Bleach. Store in full containers; Stainless Steel for bulk or glass for small quantities.

7. EXPOSURE CONTROL/PERSONAL PROTECTION:

Respiratory: Use only in well ventilated areas. Use protection in poor ventilation.
Hand Protection: Wear gloves.
Eye Protection: Wear goggles
Skin Protection: Wear suitable protection clothing

8. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Clear Mobile Liquid.
Odour:	Balsamic Pine.
Colour:	Water White- Pale Yellow.
Solubility:	a. Solvent – Soluble b. Alcohol – Soluble c. Water – Insoluble
Boiling Point:	Not reported.
Flash Point:	56°C
Specific Gravity:	0.872 – 0.878.
Vapour Pressure mm:	Not reported.

9. REACTIVITY & STABILITY:

The oil is stable under normal storage conditions. After opening, the oil is prone to air oxidation and may start to deteriorate after twelve months.

Synergistic Reaction:	Not reported.
Materials to avoid:	Oxidizing agents.
Polymerisation Hazard:	None.

10. TOXICOLOGICAL INFORMATION:

Hazardous Effects

Inhalation:	Hazardous.
Skin Contact:	Concentrated oil may cause skin degreasing with some irritation.
Eye Contact:	Irritant.
Ingestion:	Toxic do not induce vomiting.

11. ECOLOGICAL DATA

This is a degradable product, however, do not release directly into the environment.

12. DISPOSAL METHODS:

Recover the product where possible or bury in authorised landfill sites according to local authority regulations.

13. TRANSPORT REGULATIONS:

Road:	ARR/RTMDR 3:31 C
Air:	IATA 3
Sea:	IMDG 3.3
UN-No:	1169
Proper Shipping Name:	Extracts, Aromatic, Liquid
IMDG Class:	3
Packing Group	III

14. REGULATORY INFORMATION:

Labels for Conveyance:	Xn. R10.
Labels for Supply:	Xn. R10. R22. R65. S62.

15. FURTHER INFORMATION:

Whilst Absolute Aromas Ltd give the above advice in good faith, it is not intended to be a substitute for customers own testing to ascertain good safety procedures.

These regulations were designed for handling bulk products and to readily identify Toxic & Safety Data.

Safety information is under continuous review.