# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT IDENTIFICATION

**Product name**: Fir needle essential oil
**Botanical name**: Abies siberica
Supplier: Go Native New Zealand, PO Box 32579 Devonport, Auckland 0624.

## SECTION 2: CLASSIFICATION

CAS USA: 8021-29-2
EINECS: 281-679-2
24 HOUR Emergency Phone No: 111

## SECTION 3: HAZARDS IDENTIFICATION

Eyes: Hazardous in case of eye contact
Skin: Hazardous in case of skin contact
Ingestion: Harmful. May cause lung damage if swallowed.

## SECTION 4: FIRST AID INFORMATION

**Emergency and first aid procedures:**
**Ingestion:** Rinse mouth out with water. Call a doctor immediately.
**Inhalation:** Remove to fresh air. Keep at rest. Obtain medical attention.
**Eye contact:** Flush thoroughly with water for 15 minutes. Seek medical attention if irritation persists.
**Skin:** Remove contaminated clothing. Wash with warm soapy water. If irritation Persists, seek medical advice.
NZ Emergency Telephone Number: 111 or call Local Poison Control Centre: 0800764766.

## SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media**: Use CO2, dry powder or foam extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
**Special measures**: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus and protective clothing.
**Extinguishing procedures:** Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions**: See first aid section. Avoid inhalation and direct contact with skin and eyes. Use individual protective equipment in case of major spillages.
**Environmental precautions**: Keep away from drains, soils, surface and ground waters.
**Cleaning up methods:** Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, or sweep up and remove to an approved disposal container. Observe local disposal regulations.

## SECTION 7: HANDLING AND STORAGE

**Precautions in handling:** Apply good manufacturing practice and industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene and do not eat, drink or smoke while handling.
**Storage conditions:** Store in a tightly closed original container, in a cool, dry and ventilated area away from heat sources and protected from light. Keep air contact to a minimum.
**Fire protection:** Keep away from ignition sources and naked flames. Take precautions to avoid static discharges in working area.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

**Respiratory protection:** Avoid breathing product vapour. Apply local ventilation where possible.
**Ventilation:** Ensure good ventilation of working area.
**Hand protection:** Avoid all skin contact. Use chemically resistant gloves if required.
**Eye protection:** Use safety glasses.
**Work/hygiene practices:** Wash hands with soap and water after handling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance | Liquid |
| Colour | |
| Odour | Turpentine like |
| Specific gravity @20°C | 0.904 |
| Optical rotation @20°C | 21.13 |
| Refractive index @20°C | 1.467 |
| Solubility | Soluble in alcohol; insoluble in water |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** It presents no significant reactivity hazards by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
**Decomposition:** Liable to cause smoke and acrid fumes during combustion: carbon monoxide, carbon dioxide and non-identified organic compounds may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

Not available.

## SECTION 12: ECOLOGICAL INFORMATION

**Biodegradability:** Not readily biodegradable.
**Precautions:** Prevent surface contamination of soil, ground and surface water.

## SECTION 13: DISPOSAL CONSIDERATIONS

Avoid disposing into drainage systems and into the environment. Seek expert advice.

## SECTION 14: TRANSPORT REGULATIONS

14.2 Classified as dangerous goods, class 3 (flammable liquids), packaging group.
Not to be transported with Classes 1 (Explosives), 2.1 (Flammable Gases), this applies only when the capacity of the individual container exceeds 500L, 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 7 (Radioactive Substances), and Foodstuffs or Foodstuff empties.
14.2 UN Number: 2319
14.3 Proper Shipping Name: Terpene Hydrocarbons, n.o.s
14.4 Technical Shipping Name: Fir Oil
14.5 DG Class/ Subsidiary Risk: Class 3; no subsidiary risk
14.6 Packaging Group: III
14.7 Special Precautions: None established
14.8 Hazchem Code: 3(Y)

**14.9 Maritime Transportation IMDG**

IMDG Class: 3
Label: 3
UN No: 2319
Packaging Group: III
EMS No: F-E, S-D
Marine Pollutant: Yes
Proper Shipping Name: Terpene hydrocarbons, nos
Technical Shipping Name: Fir oil

**14.10 Air Transportation ICAO-TI and IATA-DGR**

ICAO/IATA Class: 3
Label: 3
UN No: 2319
Packaging Group: III
Proper Shipping Name: Terpene hydrocarbons, nos
Technical Shipping Name: Fir Oil

## SECTION 15: REGULATORY INFORMATION

**Hazards:** Harmful
**Symbols:** Xn
**Risk phrases:** R22 Harmful if swallowed
R36/38 Irritating to eyes and skin
**Safety phrases**: S24/25 Avoid contact with skin and eyes
S37 Wear suitable gloves
S46 If swallowed, seek medical advice immediately and show the container or label.

## SECTION 16: DISCLAIMER

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