

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identification

Product name: Myfilm 23	Chemicals name: Di-1-p-menthene
CAS-No.: 34363-01-4	EINECS No.: N/A
Synonyms: Pinolene, Piney Resin Emus lion	

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

Used as coating plants to prevent loss of water, to adhere pesticides to the plants, and to aid plant growth.

1.3 Details of the supplier

- Supplier: Mycrop sdn bhd
- Tel: Tel: 05-5285281
- Fax: 05-5284281

1.4 Emergency telephone number

Mycrop sdn bhd
05-5285280 / 05-5285281

1.5 General information

Myfilm 23 is a Non-toxic, Biodegradable monoterpene Polymers

SECTION 2: HAZARDS IDENTIFICATION

2.1 Potential Health Effects

Skin Contact	Prolonged or repeated skin contact may cause irritation. When it is heated, this product may cause thermal burns.
Eye Contact	Product may cause eye irritation. Rubbing may cause abrasion of the cornea. Symptoms may include irritation, redness, scratching of the cornea, and tearing. Vapors may also cause eye irritation. If heated product contacts the eye, thermal burns may result.
Inhalation	Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing and difficulty breathing.
Ingestion	Ingestion of product may produce mild gastrointestinal disturbances.

2.2 HMIS Classification

Health hazard:	1	Degree of Hazard: 4=Extreme; 3=High; 2=Moderate; 1=Slight; 0=Insignificant
Fire:	1	
Reactivity:	0	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	Concentration	Cas-No.
Di-1-p-menthene	85-90%	34363-01-4

3.2 Mixtures

Chemical Name	Concentration	Component	Cas-No.
Additive	10-15%	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin Contact	In case of skin contact, wash immediately with soap and water. If irritation develops or persists, seek medical attention. If hot product contacts skin, cool under running water and seek medical attention. Do not attempt to remove the hot, molten or cooled product from the skin.
Eye contact	Immediately flush eyes with flooding amounts of cool, low pressure water for at least 15 minutes. If irritation persists, get medical attention. If hot/molten product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move person to non-contaminated air. If affected person is not breathing, apply artificial respiration. Seek medical attention.
Ingestion	If swallowed, contact a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 NOTES TO PHYSICIAN

Provide general supportive measures and treat symptomatically. In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. If burn is present, treat as any thermal burn. Removing adhered product from burned skin may compromise the skin integrity and result in infection and/or more severe scarring.

SECTION 5: FIREFIGHTING MEASURES

5.1 General fire hazards

If product is frozen and ground into a fine dust, may form explosive dust/air mixture if high concentration of product dust is suspended in air. Static electric charges created by emptying product from ungrounded containers in or near flammable vapors may cause flash fire. Product is not considered combustible. If heated above its flash point in the presence of air, product can support combustion.

5.2 Extinguishing media Suitable extinguishing media

Carbon dioxide, dry chemical or water.

5.3 Fire Fighting

Wear full protective clothing, including self-contained positive pressure or pressure demand breathing apparatus, helmet, protective clothing and face mask. Use water to cool fire-exposed containers and to protect personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Containment

Contain the discharged material. If airborne dust is generated, eliminate all sources of ignition that may come into contact with the dust.

6.2 Evacuation Procedures

Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

6.3 Clean-up Procedures:

Wear appropriate protective equipment and clothing during clean-up. If product is in dust form, avoid generation of dust during clean-up. Wear an approved respirator if dust is generated above exposure limits. Attempt to reclaim free product, if this is possible. Shovel material into appropriate container for disposal. Follow all Local, State, Federal, and Provincial regulations for disposal.

Special Instructions

Avoid contact with skin and eyes. Avoid skin contact with molten resins. Avoid inhalation of dust from spilled material. Avoid inhalation of fumes from molten product.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid eye and skin contact. If product is in dust form: avoid breathing dusts from this material. Avoid breathing fumes if product is used at high temperatures. Maintain good housekeeping to prevent dust accumulation.

7.2 Conditions for safe storage, including any incompatibilities

Store at ambient temperature and atmospheric pressure.

7.3 Specific end use(s)

N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Controls

Provide local exhaust and general ventilation systems to maintain airborne concentrations below OSHA, ACGIH, and manufacturer recommended exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into work areas by controlling it at its source. Local exhaust ventilation is recommended when generating excessive levels of airborne dust or vapors from handling or thermal processing. Use electrically grounded, explosion-proof equipment for ventilation or any handling of this product.

8.2 Personal Protection

Eye/ Face/Skin:	Wear chemical goggles and face shield if handling molten material. Use impervious gloves. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. For heated/Molten product, use any type thermal insulating gloves and other clothing as necessary to protect from thermal burns.
Respiratory:	Respirators should be selected by and used under the direction of a trained health and safety professional.
General:	Use good industrial hygiene practices in handling this material. Eye wash fountains and emergency showers are recommended. Launder contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Odor	pH
Viscous yellow brown liquid	piney odor	N/A
Melting Point	Boiling Point	Flash Point
N/A	>212 °C	>132.22°C (270°F) (Setaflash Closed Cup.)
Refractive index	Flammability (solid, gas)	Flammability (solid, gas)
N/A	N/A	N/A
Flammability Limit - Upper (%)	Flammability Limit - Lower (%)	Vapor pressure
N/A	N/A	N/A
Vapor density (air=1)	Specific Gravity	Autoignition Temperature
N/A	0.94 (water=1)	N/A

Solubility(ies)	Soluble in water.		
Viscosity	Explosive properties	Oxidizing properties	Minimum ignition temperature
N/A	N/A	N/A	N/A
Partition coefficient (n-octanol/water)			Decomposition Temperature
N/A			N/A
SECTION 10: STABILITY AND REACTIVITY			
10.1 Hazardous Polymerization			
Hazardous polymerization will not occur.			
10.2 Chemical stability			
Stable under recommended storage conditions.			
10.3 Possibility of hazardous reactions			
N/A			
10.4 Conditions to avoid			
Avoid strong oxidizing agents.			
10.5 Incompatible materials			
May react with strong oxidizing agents.			
10.6 Hazardous decomposition products			
Smoke, carbon monoxide, carbon dioxide, and other products of combustion.			
SECTION 11: TOXICOLOGICAL INFORMATION			
11.1 Toxicity to Animals			
Di-1-p-menthene: ORAL, rats, LD50 = > 5,000 mg/kg; DERMAL, rabbits, LD50 = > 2,000 mg/kg; This product was found to be a minimal to mild skin irritant and not a significant eye irritant in rabbits.			
11.1 Toxicity to Humans			
Contact may cause skin or eye irritation. Ingestion may cause nausea ,vomiting and diarrhea. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. CARCINOGENIC EFFECTS: None of this product's components are listed as carcinogens by ACGIH, IARC, NIOSH, NTP or OSHA. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. No information is available on the toxicity of this product to th e reproductive system..			
SECTION 12: ECOLOGICAL INFORMATION			
12.1 Ecotoxicity			
N/A			
12.2 Environmental Fate			
N/A			
SECTION 13: DISPOSAL CONSIDERATIONS			
13.1. Waste treatment methods			
Waste material must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous waste. No EPA Waste Numbers are applicable for this product's components. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Write to the address listed in Section 1 for information on heavy metals analysis and other disposal information.			

SECTION 14: TRANSPORT INFORMATION

(Transport department name)

Proper Shipping Name: Not a DOT controlled material (United States).

Hazard Class: N/A

UN/NA Number: N/A

Packing Group: N/A

Labels Required: N/A

SECTION 15: REGULATORY INFORMATION

International Regulations: Follow all regulations in your country.

SECTION 16: OTHER INFORMATION**16.1 Disclaimer**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.