

## SAFTEY DATA SHEET: Nu-Film-17®

### 1. IDENTIFICATION

**Product Name:** Nu-Film-17®  
Mixture of Terpene polymers and emulsifiers  
**Other Names:** Adjuvant  
**Recommended Use:** Agricultural Adjuvant  
**Distributor:** Key Industries Ltd  
**Address:** PO Box 65 070 Mairangi Bay, Auckland 0754  
**Telephone:** 09 917 1791  
**Emergency Phone:** 027 4941659  
**National Poisons Centre:** 0800 764 766  
**Supplier:** Miller Chemical and Fertilizer Corporation  
Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Hazard Classification:** Non-hazardous:

**Hazards:**

**Primary Entry Routes:**

Eye and skin contact is the most likely exposure.

Ingestion is possible. Contact with or inhalation of sprays may cause irritation to eyes, nasal and throat.

**Target Organs:**

Eyes, skin and respiratory tract.

**Potential Health Effects**

Inhalation: May cause slight irritation if mist occurs.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.

Acute Effects: Irritation

**Chronic Effects:** None known

Signs and Symptoms of exposure:

Eye contact may produce irritation and/redness.

Medical Condition Aggravated by Long-Term Exposure: None known

Physical Hazards: Refer to MSDS section 7 for handling and storage

### 3. COMPOSITION: Information on Ingredients

Ingredients	CAS Number Concentration (%w/w)	Concentration (%w/w)
di-1- <i>p</i> -menthene	34363-01-4	904 g/L
Other non-hazardous materials	n/a 1 – 5%	1 – 5%

Other ingredients determined not to be hazardous balance

PA Right to Know: This product contains proprietary ingredients

### 4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

**EYE CONTACT**

Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

**SKIN CONTACT**

Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

**INHALATION**

Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

## SAFTEY DATA SHEET: Nu-Film-17®

### 4. FIRST AID MEASURES –Continued

#### INGESTION

If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!**

### 5. FIRE FIGHTING MEASURES

**Flash Point (METHOD):** > 200°C

**Auto-Ignition:** Not Available

**Flammable Limits:** Not Available

**Extinguishing Media:** Dry chemical, carbon dioxide (CO<sub>2</sub>), water spray or Sand/Earth

**Special Fire Fighting Procedures:** None currently known.

**Unusual Fire and Explosion Hazards:** Generates CO<sub>2</sub>, CO and smoke. Combustion products may be toxic

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section 8). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

#### Contain spill

Shut off leak if safe to do so. Dike area, recover and reclaim material if possible. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb the liquid on material such as sand, vermiculite, or other inert, non-combustible absorbent and place in a clean, dry container suitable for disposal. Containers should be closed and segregated for later disposal. Scrub the area with detergent and water.

#### Disposal Method

Solids must be disposed of in a permitted waste management facility. Triple rinse container and add rinsate to the spray tank. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

### 7. HANDLING AND STORAGE

**Handling:** Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapour, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

**Storage:** For industrial use only. Keep container closed when not in use. Store at temperatures between 5°C and 40°C and in well-ventilated areas away from heat or flame. Keep out of reach of children.

### 8. EXPOSURE CONTROLS: Personal Protection

#### Engineering Controls:

**Mechanical:** General ventilation is usually adequate.

**Respiratory Protection:** If exposure limits are exceeded, or if exposure may occur, it is recommended to use an approved respirator or half face mask complying with OSH and other relevant standards. For emergencies, use an industry approved positive pressure-breathing apparatus should be readily available.

**Eye Protection:** Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

**Skin Protection:** Rubber gloves, clean protective body covering, rubber apron, and rubber boots.

**Work Hygienic Practices:** Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Thoroughly wash contaminated clothing before use.

**Other Protective Equipment:** Safety shower, eye wash fountain, and washing facilities should be readily available.

## SAFTEY DATA SHEET: Nu-Film-17®

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Yellow to amber liquid
<b>Odour:</b>	Moderate
<b>pH (aqueous approx. 5% in DW):</b>	6.0 – 7.0 @ 20°C
<b>Freeze Point:</b>	Not Determined
<b>Boiling point/Boiling range:</b>	Not Determined
<b>Flash Point:</b>	Not Determined
<b>Vapour Pressure (mmHg):</b>	Not Determined
<b>Vapour Density (Air=1):</b>	Not Determined
<b>Solubility in Water:</b>	Emulsifies
<b>Density:</b>	920-940 litres / @ 20°C
<b>Specific Gravity (H2O=1 @ 4°C)</b>	920-940 litres @ 20°C
<b>Evaporation Rate (NA=1):</b>	Not Determined
<b>Precent Volatile by Volume:</b>	Not Determined

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Materials to Avoid:</b>	Strong oxidizing agents, excessive heat and sources of ignition.
<b>Hazardous Polymerization:</b>	None Known
<b>Hazardous Decomposition or By-products:</b>	At high temperatures may release oxides of carbon

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicity Data:</b>	
<b>Acute Eye Irritation:</b>	May cause irritation
<b>Chronic Effects:</b>	Not known
<b>Acute Dermal Irritation:</b>	LD50 >2000 mg/kg (rabbit)
<b>Carcinogenicity:</b>	None found
<b>Acute Oral Effects:</b>	LD50 >5000 mg/kg (rat)
<b>Mutagenicity:</b>	None found
<b>Acute Inhalation Effects:</b>	LC50 >2460 mg/m3 (rat)
<b>Teratogenicity:</b>	None found

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	This product is a spray adjuvant. Large spills could possible damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread of runoff into drains, storm sewers, and ditches that lead to waterways.
<b>Aquatic Toxicity:</b>	Data not available
<b>Environmental Fate:</b>	Data not available

### 13. DISPOSAL CONSIDERATIONS

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### 14. TRANSPORT INFORMATION

**This product is not considered a hazard**

<b>UN No:</b>	NA
<b>Proper Shipping Name:</b>	Nu-Film-17®
<b>DG Class:</b>	NA
<b>Subsidiary Risk:</b>	NA
<b>Packing Group:</b>	NA
<b>Hazchem Code:</b>	NA

This product is Not classified as Dangerous Goods by Road and Rail. Please consult the Land Transport Rule : Dangerous Goods 2005, and NZS 5433:1999 Transport of Dangerous Goods on Land for further information

## SAFETY DATA SHEET: Nu-Film-17®

### 15. REGULATORY INFORMATION

**Country/ Region: New Zealand:**

Under the Standard for Uniform scheduling of Drugs and Poisons (SUSDP No. 22), this Product is not a scheduled poison.

This product does not require registration under the Agricultural and Veterinary Chemicals Code Act 1994.

This product is not classified as a Hazardous Substance under the criteria of LTSA This product is not classified as a Dangerous Good under the New Zealand Code for the Land Transport of Dangerous Goods by Road and Rail.

### 16. OTHER INFORMATION

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.

Mist Control is a registered trademark of Miller Chemical & Fertilizer Corporation - USA.