

Safety Data Sheet

Date: April 2019

Version:2019-04

1. Chemical Product and Company identification

Product Name: Nu Film P®

Chemical name: Adjuvant

Common Name, Synonym: Mixture of Terpene polymers and emulsifiers

Material uses: Agricultural Adjuvant

Manufacturer: Miller Chemicals and Fertilizer, LLC. Phone: (717) 632-8921

FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

Details of Supplier:

Hygrotech Properties (Pty) Ltd, 1 Gerard Braak street, Pyramid, Pretoria, 0120

Emergency Telephone numbers:

Griffon Poison Information Centre: 082 446 8946

Hygrotech Head Office: 012 545 8000 (o/h)

2. Hazard Identification

2.1	Classification of the substances or mixture
GHS Classification (29 CFR 1910.1200)	Not a hazardous substance or mixture according to 29 CFR 1910.1200 (OSHA HCS)
2.2	Label elements
Pictogram	Not applicable
Signal word	Not applicable
Hazard Statements	Not applicable
Precautionary Statements	Not applicable

3. Composition/Information of ingredients

Ingredient name	CAS no,	%
-----------------	---------	---

This product has been tested as a whole to determine its hazards		100
--	--	-----

4. First Aid measures	
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 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
Ingestion	If swallowed. DO NOT induce vomiting. Rinse mouth with water. Dilute stomach content by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately

5. Fire fighting measures	
Flash point (Method)	>100°C
Auto-Ignition	Not available
Flammable limits	Not available
Extinguishing media	Dry chemical, carbon dioxide (CO ₂), water spray or sand/earth
Special firefighting procedures	None currently known
Unusual fire and explosion hazard	Generates CO ₂ , CO and smoke. Combustion products may be toxic

6. Accidental release measures	
Personal precaution	Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). 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. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, state and local regulations. Local regulations may be more stringent than

	Federal or state
--	------------------

7. Handling and storage	
Handling	Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, 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, use a NOISHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publication concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. for emergencies, A NOISHA/MSHA 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 VI. Launder contaminated clothing before use
Other protective equipment	Safety shower, eye wash fountain, and washing facility should be readily available

9. Physical and chemical properties	
Appearance	Red – reddish amber liquid
Odour	Moderate terpene
pH (5% in DW)	6.0-7.0@ 20°C
Boiling point	Not determined
Freeze point	Not determined
Flash point	>100°C
Vapour pressure	Not determined
Vapour density	Not determined
Solubility in water	Emulsifies

Specific gravity	0.92-0.93 g/ml
------------------	----------------

10. Stability and reactivity	
Chemical stability	Stable
Materials/conditions to avoid	Strong oxidizing agents, excessive heat and sources of ignition
Hazardous decomposition of by-products	At high temperatures may release oxides of carbon
Hazardous polymerization	Will not occur

11. Toxicology information	
Toxic data	
Acute eye irritation	May cause irritation
Acute dermal effects	LD ₅₀ >5050 mg/kg (rabbit); may cause skin irritation
Acute oral effects	LD ₅₀ >5050 mg/kg (rat); large doses may cause nausea, vomiting, and stomach pain or cramps
Acute inhalation effects	LC ₅₀ >5260 mg/m ³ (rat): may cause slight irritation if mist occurs
Carcinogenicity	None found
Mutagenicity	None found
Teratogenicity	None found
Chronic effects	Not known

12. Ecological information	
Ecotoxicity	This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread of runoff into drains, storm sewers and ditches that lead to waterways
Aquatic toxicity	Data not available
Environmental fate	Data not available

13. Disposal considerations	
Disposal	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, country, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal regulatory requirements	Consult local, country, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container cleaning and disposal	Consult local, country, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

14. Transport information	
UN No.	Not regulated
UN proper shipping name	
Transport hazardous class	
Packing group	
Environmental hazard	
Trem card no.	2015-12-15

15. Regulatory information	
EPA regulations	Not applicable
State regulations	Not applicable

16. Other information	
Date of issue	April 2019
Date of previous issue	December 2014
Version	2019-04
Prepared by	User2005

Notice to the reader

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist