



# Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03  
Canadian Workplace Hazardous Material Information System (WHMIS) 2015  
Mexico NOM-018-STPS-2000; NOM-018-STPS-2015  
GHS (Globally Harmonized System)

## 1. Product and company identification

### Product identifier

<b>Product Name</b>	Nu-Film® P
<b>Pure substance/mixture</b>	Non-hazardous mixture

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

<b>Recommended use</b>	Agricultural Adjuvant
<b>Uses advised against</b>	None known, only use as directed

### Details of registration holder and distributor:

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

### Emergency Telephone numbers (local):

Griffon Poison Information Centre: 082 446 8946  
Hygrotech Head Office: 012 545 8000 (o/h)

### Details of supplier of product:

Miller Chemical & Fertilizer, LLC., 120 Radio Road, Hanover, Pennsylvania, 17331, USA.

### Emergency Telephone numbers (international):

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

## 2. Hazard(s) identification

### Classification of the substance or mixture

OSHA Regulatory Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## GHS Classification

Hazard class	None
Category	None
Hazard statement number	None

## Label Elements

Pictograms	None
Signal Word	None
Hazard Statements	None

## Precautionary Statements

Additional information	Not applicable
Hazards not otherwise classified (HNOC)	None known

## 3. Composition/information on ingredients

**Pure substance/mixture** Non-hazardous Mixture

This product has been tested as a whole to determine its hazard – see Section 11.

Hazardous Component – Chemical Name	CAS No.	Weight - %	TSCA: United States	Canada (DSL)	Mexico	WHMIS	OSHA Regulatory Status
Non-hazardous	-	100	A	Y	N	-	Not classified

### Legend

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

**Additional information:** This product is considered non-ionic. Exempt or - : this substance or its uses are exempted from REACH registration or no REACH registration obligation as annual tonnage <1 tpa.

## 4. First Aid measures

### Description of First Aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. If vomiting occurs naturally, reduce the risk of aspiration by leaning their body forward. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### Most important symptoms/effects, acute and delayed

None known.

### Indication of any immediate medical attention and special treatment needed

Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## 5. Fire-fighting measures

<b>Extinguishing media</b>	<b>Suitable Extinguishing Media:</b> Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray (fog). Sand/Earth. <b>Unsuitable Extinguishing Media:</b> None known.
<b>Specific hazards arising from the chemical including thermal decomposition products</b>	Carbon oxides. Combustion products may be toxic.
<b>Special protective equipment for firefighters</b>	None known.
<b>Fire-fighting measures</b>	Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

## 6. Accidental release measures

<b>Personal precautions, protective equipment, and emergency procedures</b>	Keep unauthorized personnel away. In case of fire: Stop leak if safe to do so. <b>For non-emergency personnel:</b> Keep unauthorized personnel away. <b>For emergency responders:</b> Keep unauthorized personnel away. Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	Avoid runoff to waterways and sewers.
<b>Containment and clean-up</b>	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.
<b>Reference to other SDS sections</b>	See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container closed when not in use. Provide adequate ventilation when container is open. Keep at temperatures between 41 °F and 104 °F (5 °C and 40 °C). Keep away from open flames, hot surfaces, and sources of ignition. Keep out of reach of children.

## 8. Exposure controls/personal protection

<b>Control parameters</b>	<b>Occupational exposure limits:</b> No information available <b>Biological limit values:</b> No information available
<b>Exposure controls:</b> Appropriate engineering measures	Provide a good standard of controlled ventilation (5 to 10 air changes per hour). Use exhaust ventilation to keep airborne concentrations below exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Individual protection measures:</b> Personal protective equipment	<b>Eye/Face:</b> Wear safety glasses with side shields (or goggles). <b>Skin and body:</b> Wear suitable protective clothing. <b>Hand:</b> For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. <b>Respiratory:</b> In case of inadequate ventilation wear respiratory protection.
<b>Environmental exposure controls</b>	Dispose of in accordance with local regulation.

## 9. Physical and chemical properties

<b>Phase</b>	Liquid
<b>Colour</b>	Red to reddish amber
<b>Odour</b>	Moderate
<b>pH (1%)</b>	6.0 - 7.0 @ 20 °C
<b>Boiling point / Boiling range</b>	Not determined
<b>Freezing point</b>	Not determined
<b>Flash Point (°C)</b>	> 212 °F (100 °C)
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined
<b>Vapour pressure</b>	Not determined
<b>Vapour density</b>	Not determined (Air = 1)
<b>Density</b>	7.71 - 7.75 lbs/gal @ 68 °F (0.92 - 0.93 g/ml @ 20 °C)
<b>Water solubility</b>	Emulsifier
<b>Specific gravity</b>	0.92 - 0.93 g/ml @ 68 °F (20 °C)
<b>Percent volatile</b>	Not determined

## 10. Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Strong oxidizing agents. Heat, flames, and sparks.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

**General Information** Users are advised to consider national Occupational Exposure Limits or other equivalent values.

### Information on Likely Routes of Exposure

**Inhalation** May cause slight irritation if mist occurs.

**Skin** May cause irritation.

**Eyes** May cause irritation.

**Ingestion** Large amount of material can cause serious diarrhoea. Nausea and vomiting may also occur and possibly abdominal cramping.

### Information on toxicological effects

#### Non-Hazardous

**Oral LD<sub>50</sub>** > 5050 mg/kg (rat)

**Dermal LD<sub>50</sub>** > 5050 mg/kg (rabbit)

**Inhalation LC<sub>50</sub>** > 5260 mg/m<sup>3</sup> (rat)

**Acute Toxicity** May cause irritation.

**Chronic Effects** None known.

**Serious eye damage/eye irritation** Contact with eyes may cause irritation.

**Skin Corrosion/Irritation** May cause skin irritation.

**Mutagenicity** Not mutagenic.

**Carcinogenicity** Not listed as a carcinogen.

## 12. Ecological information

<b>Ecotoxicity</b>	This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spilled substance from entering water supplies or water courses.
<b>Toxicity to bees (<i>Apis mellifera</i>) LD<sub>50</sub></b>	>100 µg/bee (48 hrs)
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB assessment</b>	No data available.
<b>Other adverse effects</b>	No information available.

## 13. Disposal information

<b>Waste treatment and disposal methods</b>	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. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
<b>Disposal of packaging</b>	Product residue may remain in empty containers. Rinse empty container 3 times with a quarter volume of water and add to the spray tank. Puncture and flatten empty containers and offer for recycling to a CroLife SA approved recycler. Do not burn or bury empty containers.

## 14. Transport information

### Mode of Transportation (Road, Water, Air, Rail)

<b>TDG - Canada</b>	Not regulated
<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG/IMO</b>	Not regulated
<b>ICAO</b>	Not regulated

<b>UN number</b>	None
<b>UN proper shipping name</b>	None
<b>Transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	No
<b>Special precautions for user</b>	Not applicable

## 15. Regulatory information

### Global Inventories

**Pure substance/mixture** Non-hazardous Mixture

This product has been tested as a whole to determine its hazard - see section 11

Chemical Name	CAS Number	Canada (DSL)	Mexico	TSCA: United States
Non-Hazardous	-	Y	N	A

**Legend**

Y: Complies ; A: Active ; - / N: Exempt / Not Listed

### EPA

**CWA (Clean Water Act)** Not regulated

**CAA (Clean Air Act)** Not regulated

### U.S. State Right-to-Know Regulations

Chemical Name	CAS No	California Proposition 65	Massachusetts	Minnesota	New Jersey	Pennsylvania
Non-Hazardous	-	N	N	N	N	N

**Legend**

Y: Listed ; N: Not Listed

### CANADA

#### WHMIS

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### SOUTH AFRICA

**Registration Requirements:** Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947).

**Pesticide Handling, Storage and Disposal Safety:** SANS10206: 2020.

**Safety Data Sheet and Occupational Exposure Limit Requirements:** Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010.

**Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces:** Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

## 16. Other information

Date of issue:	1 September 2022
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Reason for version:	GHS requirements
Prepared by:	Hygrotech Properties (Pty) Ltd.

### Abbreviations and acronyms

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

WHMIS (Workplace Hazardous Materials Information System)

GHS (Globally Harmonized System)

IARC (International Agency for Research on Cancer)

PPE (Personal Protection Equipment)

TWA (Time-Weighted Average)

TLV® (Threshold Limit Value)

STEL (Short Term Exposure Limit)

RQ (Reportable Quantity) (RQ/% in mixture)

DOT (Department of Transportation)

TDG (Transport of Dangerous Goods) Canada

IATA (International Air Transport Association)

IMDG (International Maritime Dangerous Goods)

### **Disclaimer**

*The information supplied in this Safety Data Sheet is correct to the best of our knowledge and belief at the time and date of its publication. All reasonable effort was done to ensure that the data used is current and reliable. Neither the above-named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein.*

*The information is supplied has been developed only as guidance for the safe handling, use, processing, storage, transportation, and disposal of the product and is not considered a warranty or quality specification. 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.*

**END OF SAFETY DATA SHEET**