



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

Product Name	Nu-Film® 17
Pure substance/mixture	Non-hazardous mixture

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

Recommended use	Agricultural Adjuvant
Uses advised against	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.

4. First Aid measures

Description of First Aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.
Ingestion	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.
Inhalation	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

Extinguishing media	Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO ₂). Water spray (fog). Sand/Earth. Unsuitable Extinguishing Media: None known.
Specific hazards arising from the chemical including thermal decomposition products	Carbon oxides. Combustion products may be toxic.
Special protective equipment for firefighters	None known.
Fire-fighting measures	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

Personal precautions, protective equipment, and emergency procedures	Keep unauthorized personnel away. In case of fire: Stop leak if safe to do so. For non-emergency personnel: Keep unauthorized personnel away. For emergency responders: Keep unauthorized personnel away. Use personal protection recommended in Section 8.
Environmental precautions	Avoid runoff to waterways and sewers.
Containment and clean-up	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. Recovered liquid may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose in accordance with local, state and national regulations.
Reference to other SDS sections	See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

7. Handling and storage

Precautions for safe handling	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.
Conditions for safe storage, including any incompatibilities	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

Control parameters	Occupational exposure limits: No information available Biological limit values: No information available
Exposure controls: 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.
Individual protection measures: Personal protective equipment	Eye/Face: Wear safety glasses with side shields (or goggles). Skin and body: Wear suitable protective clothing. Hand: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Respiratory: In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls	Dispose of in accordance with local regulation.

9. Physical and chemical properties

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

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Strong oxidizing agents. Heat, flames, and sparks.
Incompatible materials	None known.
Hazardous decomposition products	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 LD₅₀	>5050 mg/kg (rat)
Dermal LD₅₀	>5050 mg/kg (rabbit)
Inhalation LC₅₀	>5260 mg/m ³ (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

Ecotoxicity	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.
Toxicity to bees (<i>Apis mellifera</i>) LD₅₀	>100 µg/bee (48 hrs)
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.
Other adverse effects	No information available.

13. Disposal information

Waste treatment and disposal methods	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.
Disposal of packaging	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 CropLife SA approved recycler. Do not burn or bury empty containers.

14. Transport information

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

TDG - Canada	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
ICAO	Not regulated

UN number	None
UN proper shipping name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	No
Special precautions for user	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

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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