



A HUBER COMPANY

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	Entree
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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:

Miller Chemical South Africa (Pty) Ltd., 217 Jack Hindon Street, Pretoria North, 0182, SA

Details of distributor:

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

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 considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification

Hazard class	Category	Hazard statement number	Hazard statement
Skin Irritation	2	H315	Causes skin irritation
Skin Sensitization	1B	H317	May cause an allergic reaction

Label Elements

Pictogram/s



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic reaction

Precautionary Statements

Prevention

Avoid breathing vapor or mist.

Wash thoroughly after handling.

Wear protective gloves.

Response

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before re-use.

Disposal

Dispose of contents/containers in accordance with local regulations.

Additional information

Not applicable

Hazards not otherwise classified (HNOC)

None known

3. Composition/information on ingredients

Pure substance/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
Tested as a whole	-	90-100	-	-	-	-	Not classified

Legend

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

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	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and hold eyelids apart and flush with a steady, gentle stream of water. Continue flushing for at least 15 minutes.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Call a physician or poison control center.
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

May cause irritation to mucous membranes and respiratory tract.

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: Alcohol resistant foam. Carbon dioxide (CO ₂). Water spray (fog). Dry chemical. Halon. Unsuitable Extinguishing Media: None known.
Specific hazards arising from the chemical including thermal decomposition products	None known.
Special protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.
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. Ensure adequate ventilation. Use personal protection recommended in Section 8. 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	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. Avoid prolonged contact with material. Do not swallow.
Conditions for safe storage, including any incompatibilities	Keep container closed and dry 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 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: Chemical goggles or face shield with safety glasses. Always wear eye protection when working with chemicals. Skin and body: Wear suitable protective clothing. Hand: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Respiratory: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134.
Environmental exposure controls	Dispose of in accordance with local regulation.

9. Physical and chemical properties

Phase	Liquid
Colour	Amber to brown
Odour	Moderate
pH (1%)	6.0 - 7.0 @ 20 °C
Boiling point / Boiling range	435 °F (224 °C)
Freezing point	<32 °F (0 °C)
Flash Point (°C)	626 °F (330 °C) (TCC)
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Vapour pressure	22.8 mmHg
Vapour density	Not determined
Density	7.60 - 7.70 lbs/gal @ 68 °F (0.91 - 0.92 g/ml @ 20 °C)
Water solubility	Emulsifies
Specific gravity	0.90 - 0.93 g/ml @ 68 °F (0.90 - 0.93 @ 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	No specific hazard known.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidizing agents.
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	Avoid breathing vapor or mist.
Skin	Moderate potential to produce sensitization.
Eyes	May cause irritation.
Ingestion	Avoid ingestion. Do not induce vomiting without medical advice.

Information on toxicological effects

Acute Toxicity	LD ₅₀ Oral (rat) > 5000 mg/kg LD ₅₀ Dermal (rat) > 5000 mg/kg LC ₅₀ Inhalation > 5.88 mg/L
Serious eye damage/eye irritation	Contact with eyes may cause irritation.
Skin Corrosion/Irritation	Irritating to skin.
Skin Sensitization	Moderate potential to produce sensitization.
Mutagenicity	No information available.

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.

Tested as a whole

Aquatic toxicity	Daphnia magna : LC ₅₀ - 8.26 mg/L Bluegill sunfish: LC ₅₀ - 11.08 mg/L Rainbow trout: LC ₅₀ 8.98 mg/L
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 CroLife SA approved recycler. Do not burn or bury empty containers.

14. Transport information

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

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 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
Tested as a whole	-	-	-	-

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
Tested as a whole	-	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:	Miller Chemical SA (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)

ICAO (International Civil Aviation Organization)

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. A 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