



NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

Date of issue: 06/28/2019

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : NUTRICOTE Total 13-11-11

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

Recommended use : Fertilizers
Restrictions on use : Must not come into contact with food or be consumed.

1.3. Details of the supplier of the safety data sheet

Supplier

UPL AgroSolutions Canada Inc.
400 Michener Road, Unit 2
Guelph, Ontario N1K 1E4 - Canada
T 1-866-761-9397
sds@arysta.com

Manufacturer

Arysta LifeScience America, Inc.
15401 Weston Parkway, Suite 150
Cary, NC 27513 - USA
T 1-866-761-9397

1.4. Emergency telephone number

Emergency number : Spill calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Eye Irrit. 2A H319
Repr. 1B H360
STOT RE 2 H373

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



GHS07

GHS08

Signal word (GHS) :

Danger

Hazard statements (GHS) :

H319 - Causes serious eye irritation.
H360 - May damage fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear Protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification : Hygroscopic.

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

2.4. Unknown acute toxicity (GHS)

5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Ammonium nitrate	(CAS-No.) 6484-52-2	30 - 35	Eye Irrit. 2A, H319
Magnesium sulphate anhydrous	(CAS-No.) 7487-88-9	5 - 10	Eye Irrit. 2B, H320
EDTA	(CAS-No.) 60-00-4	1 - 2	Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 STOT RE 2, H373
boric acid	(CAS-No.) 10043-35-3	0.1 - 0.2	Repr. 1B, H360

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
- Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust. Contain and collect as any solid.
Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Avoid prolonged inhalation of dust.
Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place.
Incompatible products : Alkali. Moisture.
Incompatible materials : Sources of ignition. Direct sunlight.
Storage area : Store in a dry place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

NUTRICOTE Total 13-11-11		
ACGIH	Not applicable	
OSHA	Not applicable	
Ammonium nitrate (6484-52-2)		
ACGIH	Not applicable	
OSHA	Not applicable	
Magnesium sulphate anhydrous (7487-88-9)		
ACGIH	Not applicable	
OSHA	Not applicable	
EDTA (60-00-4)		
ACGIH	Not applicable	
OSHA	Not applicable	
boric acid (10043-35-3)		
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
ACGIH	ACGIH STEL (mg/m³)	6 mg/m³
OSHA	Not applicable	

8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Use rubber gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of excessive dust production. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: granules.
Colour	: Gray
Odour	: odourless
Odour threshold	: No data available
pH	: 5 (10% Aq.)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.1 g/cm ³
Solubility	: Moderately soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Alkali.

10.6. Hazardous decomposition products

Nitrogen oxides. Sulphur oxides. ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation. Skin and eye contact.

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS)	5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 5.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
------------------------------	--

Ammonium nitrate (6484-52-2)

LD50 oral rat	2950 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 88.8 mg/l
ATE US (oral)	2950 mg/kg bodyweight

Magnesium sulphate anhydrous (7487-88-9)

LD50 oral rat	> 2000 mg/kg no mortality observed
LD50 dermal rat	> 2000 mg/kg No mortality observed

EDTA (60-00-4)

LD50 oral rat	4500 mg/kg
LC50 inhalation rat (mg/l)	30 mg/m ³ LOAEC
ATE US (oral)	4500 mg/kg bodyweight
ATE US (gases)	4500 ppmv/4h
ATE US (vapours)	11 mg/l/4h
ATE US (dust,mist)	1.5 mg/l/4h

boric acid (10043-35-3)

LD50 oral rat	>= 2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/l/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

EDTA (60-00-4)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
------------------------	--

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after eye contact : Causes serious eye irritation.

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

SECTION 12: Ecological information

12.1. Toxicity

Ammonium nitrate (6484-52-2)	
LC50 fish 1	447 mg/l 48 h
EC50 Daphnia 1	490 mg/l 48 h
Magnesium sulphate anhydrous (7487-88-9)	
LC50 fish 1	15500 mg/l 24 h
EC50 Daphnia 1	1700 mg/l 24 h
EDTA (60-00-4)	
LC50 fish 1	41 mg/l 96 h
EC50 Daphnia 1	625 mg/l 24 h
boric acid (10043-35-3)	
LC50 fish 1	>= 1.02 g/l Carassius auratus, 3 days
EC50 Daphnia 1	658 - 875 mg/l 48 hours
ErC50 (algae)	< mg/l
LOEC (chronic)	> 97 mg/l salmo gairdneri

12.2. Persistence and degradability

NUTRICOTE Total 13-11-11	
Persistence and degradability	Not established.
EDTA (60-00-4)	
Persistence and degradability	Readily biodegradable.
boric acid (10043-35-3)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

NUTRICOTE Total 13-11-11	
Bioaccumulative potential	Not established.
EDTA (60-00-4)	
BCF fish 1	1.1 28 d
Log Pow	-3.34
boric acid (10043-35-3)	
BCF fish 1	34 mg/l Oncorhynchus tshawytscha, 90 days at 12 degrees C
Log Pow	-0.757 at 25 degrees C

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Transportation of Dangerous Goods

Not regulated.

Transport by sea

IMDG

NUTRICOTE Total 13-11-11

Safety Data Sheet

Canada HPR

Transport hazard class(es) (IMDG)	: 9
	:
	
Marine pollutant	: No
UN-No. (IMDG)	: 2071
Transport document description (IMDG)	: UN 2071 AMMONIUM NITRATE BASED FERTILIZER, 9, III
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
EmS-No. (Fire)	: F-H
EmS-No. (Spillage)	: S-Q

Air transport

IATA

Transport hazard class(es) (IATA)	: 9
	:
	
Marine pollutant	: No
UN-No. (IATA)	: 2071
Transport document description (IATA)	: UN 2071 AMMONIUM NITRATE BASED FERTILIZER, 9
Class (IATA)	: 9 - Miscellaneous Dangerous Goods

SECTION 15: Regulatory information

CANADA

Ammonium nitrate (6484-52-2)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Magnesium sulphate anhydrous (7487-88-9)
Listed on the Canadian DSL (Domestic Substances List) inventory.
EDTA (60-00-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.
boric acid (10043-35-3)
Listed on the Canadian DSL (Domestic Substances List) inventory.

SECTION 16: Other information

Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
--------------	--

Other information	: None.
-------------------	---------

Full text of H-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Repr. 1B	Reproductive toxicity, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H319	Causes serious eye irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.

NUTRICOTE Total 13-11-11

Safety Data Sheet

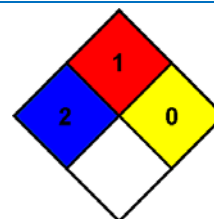
Canada HPR

H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



SDS Prepared by: The Redstone Group
6077 Frantz Rd
Suite 206
Dublin, Ohio, USA 43017
614.923.7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.