Version 1.0 Version Date 12/18/2019

# 19-0-5 Nutrite Professional Turf Fertilizer with 0.29%Barricade

# 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING

#### 1.1 Product identifier

Product name

19-0-5 Nutrite Professional Turf Fertilizer with 0.29%Barricade

#### 1.2 Relevant use of the product

Applications

Herbicide/Fertilizer combo

#### 1.3 Manufacturer, Importer or Responsible Party

Name

**FERTI TECHNOLOGIES** 

Address

560, Chemin Rhéaume, C.P 129

JOL 2J0

Saint-Michel, Québec, Canada

Telephone

450 454-7521

Contact email

reg@fertitechno.com

#### 1.4 Emergency phone number

Telephone

USA National Capital Poison Center: 1 800 222 1222

# 2. HAZARDS IDENTIFICATION

#### 2.1. The hazard classification of the chemical according to HCS 2012 (US-GHS)

Skin Irrit. 3	H316
Skin sens. Cat 1	H317
Eye Irrit. 2B	H320
STOT SE 3	H335
Carc. 1	H350
STOT RE 1	H372

#### 2.2. Danger symbols





#### 2.3. Signal word

Danger

#### 2.4. Hazard statements

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction

H320 Causes eye irritation.

H335 May cause respiratory irritation.

H350 May cause cancer

H372 May cause damage to organs (lungs) through prolonged or repeated

exposure if inhaled.

# 2.5. Precautionary

statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust.

19-0-5 Nutrite Professional Turf Fertilizer
with 0.29%Barricade

Version 1.0 Version Date 12/18/2019

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable

for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P314 Get medical advice/attention if you feel unwell.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container according to local regulations.

Description of any

2.6. hazards not otherwise

Not applicable.

classified

% ingredient(s) with

i+h

unknown acute

Not applicable.

toxicity

2.7.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical name	CAS-Nr.	Concentration %	
Calcium	Limestone 80-99%	1317-65-3	6 40 7 0 %	
carbonate	Quartz (SiO <sub>2</sub> ) (<1%)	14808-60-7	C = 48.7.0 %	
Urea	Carbamide, Carbonyldiamide, Carbamidic Acid) (97.5% - 99.7%)	57-13-6		
	Alkalinity as ammonia (150 ppm max)		C = 41.3%	
	Methylenediurea (0 % - 2.5 %)	13547-17-6	1	
	Biuret (0% -1.5%)	108-19-0		
Potash	Potassium chloride (95 % - 99.5 %)	7447-40-7		
	Sodium chloride (0.3 % - 3.7 %)	7647-14-5	C = 8.0%	
	Calcium, magnesium and sulfates chlorides	Various		
Oil Drî	Montmorillonite (90% - 93%)	1302-78-9	C = 1.0 %	
	Quartz (7% - 10%)	14808-60-7		
Barricade	Prodiamine (65%)	29091-21-2	6 0 45 0/	
Herbicide	Inert ingredients*	1332-58-7	C = 0.45 %	
Mineral oil		8042-47-5	C = 0.55 %	

<sup>\*</sup>The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i). Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

ET Version 1.0
Version Date
12/18/2019

# 19-0-5 Nutrite Professional Turf Fertilizer with 0.29%Barricade

### 4. FIRST AID MEASURES

#### 4.1 First Aid measures after Inhalation

Following inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided by a qualified operator. Get medical attention if irritation develops and persists.

#### 4.2 First Aid measures after Skin exposure

Following skin contact

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.

#### 4.3 First Aid measures after Eye exposure

Following eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

#### 4.4 First Aid measures after Ingestion

Following ingestion

Induce vomiting, but only if victim is fully conscious. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Do not give milk or alcoholic beverages. Call a physician.

#### 4.5 Most important symptoms and effects, both acute and delayed

INHALATION

Respiratory irritation. Skin irritation, redness,

SKIN EYES

Serious eye irritation including, scratching of the cornea, and tearing

INGESTION

If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea.

Vomiting. May cause drowsiness and loss of coordination.

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

Notes to physician:

Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable:

Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment

Small fires: Water spray, foam, dry chemical or CO2

Large fires: Water spray, fog or foam.

Unsuitable: Not applicable.

# 5.2 Special hazards arising from chemical or mixture during the fire

Container may rupture on heating. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Explosive reactions with oxidizing agents such as potassium chlorate and/or peroxides. In case of fire hazardous decomposition products may be produced such as:

- Sulphur oxides
- Ammonia
- Carbon monoxide
- Carbon dioxide (CO2)

### 5.3 Special Protective Precautions or equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

19-0-5 Nutrite Professional Turf Fertilizer with 0.29%Barricade

Version 1.0 Version Date 12/18/2019

# 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions,

Wear personal protective equipment.

protective equipment

**6.2 Emergency procedures** Unprotected persons must be kept away.

Evacuate personnel to safe areas. Provide adequate ventilation.

Avoid dust formation. Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

6.3 Methods and materials used for containment

Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.4 Clean-up procedures

Use mechanical handling equipment.
Clean contaminated surface thoroughly.

Pick up and arrange disposal without creating dust.

Use a suitable vacuum cleaner.

#### 7. HANDLING AND STORAGE

7.1 Precautions for safe

Handle with care.

handling

Wear personal protective equipment. Use only in well-ventilated areas.

Avoid dust formation.

Provide exhaust ventilation if dust is formed.

Dust must be extracted directly at the point of origin.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe

storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Containers should be protected against falling down.

Containers which are opened must be carefully resealed and kept upright to

prevent leakage.

Store away from incompatible substances.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ACGIH-Threshold Limit Value (TLV)

Exposure limit values of the components: Respirable crystalline silica dust: ACGIH TLV® = 0,025 mg/m³

Calcium carbonate: ACGIH TLV® = 10 mg/m<sup>3</sup>

Toluene: ACGIH TLV® = 20 ppm

#### 8.2 OSHA-Permissible Exposure Limit (PEL)

Exposure limit values of the components:

Component / CAS	TLV, 8H (OSHA, PEL)	
	mg/m³	
Quartz (SiO2)	Total dust: 10 mg/m³ / %SiO2+2 (OSHA Z-3)	
CAS N°: 14808-60-7	Respirable: 5 mg/m³ / %SiO2+2 (OSHA Z-3)	
Limestone	Total dust: 15 mg/m³ (OSHA Z-1)	
CAS N°: 1317-65-3	Respirable: 5 mg/m³ (OSHA Z-1)	

Version 1.0 Version Date 12/18/2019

Particulates Not Otherwise Regulated (PNOR):

Total dust: 15 mg/m³ (OSHA Z-1) Respirable: 5 mg/m³ (OSHA Z-1)

#### 8.3 Any other exposure limit used or recommended by chemical manufacturer

Non applicable

#### 8.4 Engineering Controls

Provide exhaust ventilation if dust is formed. Dust must be extracted directly at the point of origin. Apply technical measures to comply with the occupational exposure limits.

#### 8.5 Personal Protective Equipment

Hand protection: Gloves

Gloves must be inspected prior to use. Replace when worn.

Eye protection: Do not wear contact lenses.

Wear as appropriate: Safety glasses with side-shields

Body protection: Long sleeved clothing

Respiratory protection: A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator use.

<u>Hygiene measures</u>: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information of basic physical and chemical properties

Appearance (physical

Multicolored granules, solid

state, colour, etc.) Odour

Odourless

Odour threshold

Not applicable

рΗ

No data available

Melting point/freezing

No data available

point;

**Boiling point** 

Not applicable

**Boiling Range** 

Not applicable

Flash point

No data available

**Evaporation rate** 

Not applicable

Flammability

Not flammable

Version 1.0 Version Date 12/18/2019

Upper/lower flammability

or explosive limits

Oxidising properties

No data available

No data available

Vapour pressure

Not applicable

Vapour density

No data available

Density

69.7 lbs./ft3

Solubility in water

Partially soluble

Other Solvents

No data available

Partition coefficient (n-

octanol/water)

No data available

Auto ignition temperature

No data available

Decomposition

temperature

Viscosity

No data available

Not applicable

# 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal storage and handling condition

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous

reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Keep at temperatures below 5374 °F (190 °C)

10.5 Incompatible materials

Strong oxidizing agents, Chlorates and Hypochlorites

10.6 Hazardous decomposition

products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride.

Hydrogen chloride. Carbon monoxide. Carbon dioxide.

#### 11. TOXICOLOGICAL INFORMATION

11.1 Measures of Toxicity

Acute toxicity:

ingredients:

Urea:

Acute toxicity: LD50 Oral (Rat): 8471 mg/kg

Calcium carbonate:

Acute toxicity: LC50 Oral (Rat): >5000 mg/kg

Limestone:

Version 1.0 Version Date 12/18/2019

Acute toxicity: LD50 Oral (Rat): >5000 mg/kg

N-(n-butyl)-thiophosphoric triamide

Acute toxicity: LD50 Oral (Rat): > 2823 mg/kg

Skin corrosion/irritation:

May irritate skin through mechanical abrasion

Serious eye damage/irritation:

May cause serious eye irritation

Respiratory or skin sensitisation:

No data available

11.2 Listed in IARC or considered carcinogen by NTP or OSHA

Quartz (SiO2) CAS N°: 14808-60-7

Group 1 (IARC), Volume 68, 100C

Prodiamine: Benign thyroid tumors (rat). None observed (mouse).

TARGET ORGANS: Prodiamine: Prolonged or repeated overexposure may

cause liver and thyroid effects.

11.3 Further information

This product contains prismatic tremolite (e.g., cleavage fragments) as an impurity. Sufficient exposure to respirable prismatic tremolite dust may

cause serious lung problems.

#### 12. ECOLOGICAL INFORMATION

12.1 Toxicity

May be toxic to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life. May cause eutrophication of ponds and lakes.

#### Prodiamine:

Toxicity to fish: LC50: 0.83 mg/L Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates:

LC50: 0.66 mg/L (Exposure time: 48 h)

Species: Daphnia magna

#### Carbonate calcium:

Toxicity to fish : LC50: > 10000 mg/l Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Version 1.0 Version Date 12/18/2019

Toxicity to daphnia and other aquatic invertebrates:

EC50: > 1000 mg/l (Exposure time: 48 h) Species: Daphnia magna (Water flea)

Silica:

Toxicity to Algae and Crustacea

IC50: 440 mg/L (Exposure time: 72 Hours)

Species: Algae

EC50: 7600 mg/L (Exposure time: 48 Hours)

Species: Daphnia No data available

12.2 Persistence and

degradability

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC50, OECD Guidelines 203 (rainbow trout): >86mg/L.

#### 13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods to employ

Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.2 Description of appropriate disposal containers to use

No data available

13.3 Description of the physical and chemical

properties that may affect

disposal activities

No data available

13.4 Language discouraging

sewage disposal.

No data available

13.5 Any special precautions for landfills or incineration

activities

No data available

# 14. TRANSPORT INFORMATION

LINT NEL I	
UN Number	*******************************

Version 1.0 Version Date 12/18/2019

UN proper shipping name	
Transport hazard classes	
Packing group	
Environmental hazards	
Guidance On transport in bulk	
Special precautions for user	

# 15. REGULATORY INFORMATION

#### National and/or regional regulatory information of the chemical or mixtures

#### Inventories:

US, Toxic Substances Control Act: components listed

OSHA Hazards: Carcinogen

<u>Clean Air Act:</u> This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

### 16. OTHER INFORMATION

#### Indications on the revision

First edition: 12/18/2019

Addition of all fields as required by regulation (US) HCS 1910.1200 [HCS 2012]. Update of the classification information and update of related sections accordingly.

#### Abbreviations and acronyms used

ACGIH: American conference of governmental and industrial hygienist

CAS No.: Chemical Abstract Service Number

**CFR: Code of Federal Regulations** 

EC50: Half maximal effective concentration HCS: Hazard communication standard LC50: Half maximal lethal concentration

LD50: Half maximal lethal dose

OSHA: Occupational safety and health administration STOT SE: Specific target organ toxicity Single exposure STOT RE: Specific target organ toxicity Repeated exposure

UN Nº.: United Nations Number

#### Methods of evaluation for the classification of mixtures

The classification of the mixture was set based on the regulation (US) HCS 1910.1200 [HCS 2012].

#### Other information

This information is based on our present knowledge and is provided according to the relevant national regulations. This information is intended as a characterization of the product in order to provide guidance for

Version 1.0 Version Date 12/18/2019

the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product.