



Safety Data Sheet

0-0-7 Mini - Nutrite Professional Turf Fertilizer with Lockup

SECTION 1: Identification

1.1 Product identifier

Product name	0-0-7 Mini - Nutrite Professional Turf Fertilizer with Lockup
Brand	Nutrite

1.2 Other means of identification

Granular fertilizer / Pesticide combination

1.3 Recommended use of the chemical and restrictions on use

For turf/ornamental fertilizer applications. See product label for application instructions.

1.4 Supplier's details

Name	Ferti Technologies
Address	560 Chemin Rhéaume, C.P 129 Saint-Michel Québec J0L 2J0 Canada
Telephone	450 454-7521
email	reg@fertitechno.com

1.5 Emergency phone number(s)

USA National Capital Poison Center: 1 800 222 1222

SECTION 2: Hazard identification

General hazard statement

Avoid creating dust when handling, using or storing. Use outdoors or in well ventilated area to avoid exposure to dust.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Carcinogenicity, Cat. 1A
- Eye damage/irritation, Cat. 2A
- Sensitization, skin, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 1

2.2 GHS label elements, including precautionary statements

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Pictogram



Signal word

Danger

Hazard statement(s)

H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H350 May cause cancer [Inhalation]
 H372 Causes damage to organs through prolonged or repeated exposure [inhalation]

Precautionary statement(s)

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/vapors/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water/...
 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.
 P321 Specific treatment (see First Aid section).
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container according to local regulations

2.3 Other hazards which do not result in classification

No data available

SECTION 3: Composition/information on ingredients

3.2 Mixtures

This Safety Data Sheet is not a guarantee of product specification or NPK value(s).

Hazardous components

Component	Concentration
Limestone (CAS no.: 1317-65-3)	70.2 - 77.22 % (weight)
Potassium sulfate (CAS no.: 7778-80-5)	14.4 - 14.5 % (weight)
Bentonite (Montmorillonite type) (CAS no.: 1302-78-9)	4.41 - 4.9 % (weight)
Quartz (CAS no.: 14808-60-7; EC no.: 238-878-4)	< 1.27 % (weight)
2,4-DICHLOROPHENOXYACETIC ACID (CAS no.: 94-75-7; EC no.: 202-361-1; Index no.: 607-039-00-8)	1.04 - 1.04 % (weight)
Dipropylene glycol (CAS no.: 25265-71-8; EC no.: 246-770-3)	0.9 - 1 % (weight)
Trade Secret	0.66 - 0.66 % (weight)
Dicamba (CAS no.: 1918-00-9; EC no.: 217-635-6; Index no.: 607-043-00-X)	0.08 - 0.08 % (weight)
Penoxsulam (CAS no.: 219714-96-2)	0.01 - 0.01 % (weight)

Trade secret statement (OSHA 1910.1200(i))

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*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.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	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
In case of 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.
In case of 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.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Refer to first-aid section of product label

4.2 Most important symptoms/effects, acute and delayed

INHALATION: May cause respiratory irritation.

SKIN: Skin irritation

EYES: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

INGESTION: May cause discomfort if swallowed. May be harmful if swallowed in large quantities.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

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.

5.2 Specific hazards arising from the chemical

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:

Ammonia

Carbon monoxide

Carbon dioxide (CO₂)

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Potassium sulfate: Sulfur Oxides may be released

Bentonite: Aluminum oxide, silicon oxide

Dipropylene glycol: Carbon oxides

5.3 Special protective actions for fire-fighters

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Unprotected persons must be kept away. Evacuate personnel to safe areas. Provide adequate ventilation. Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Fertilizers will dissolve and disperse in water and promote algae growth, Notify downstream water users of any release that may affect water quality

6.3 Methods and materials for containment and cleaning up

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. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust. Use a suitable vacuum cleaner.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks and flame. Good housekeeping and controlling of dusts are necessary for safe handling of product. Wash thoroughly after handling. Eating, drinking and smoking is prohibited when handling product. Use with adequate ventilation. Provide exhaust ventilation if dust is formed. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

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. Avoid generation and spreading of dust.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 1317-65-3

Limestone, Total dust

Cal/OSHA: 10 mg/m³ PEL inhalation; NIOSH: 10 mg/m³ REL inhalation; OSHA: 15 mg/m³ PEL inhalation

CAS: 14808-60-7 (EC: 238-878-4)

Silica, crystalline

NIOSH: 0.05 mg/m³ REL inhalation; OSHA: 10 mg/m³ respirable 30 mg/m³ total PEL-TWA inhalation

CAS: 94-75-7

2,4-D (Dichlorophen-oxyacetic acid)

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NIOSH: 10 mg/m³ REL inhalation; OSHA: 10 mg/m³ PEL inhalation

8.2 Appropriate engineering controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear as appropriate: Safety glasses with side-shields

Skin protection

Gloves: Gloves must be inspected prior to use. Replace when worn. Wash hands before breaks and at the end of workday.

Body protection

Wear appropriate protective clothing to prevent skin exposure.
Remove and wash contaminated clothing before re-use. Wash working clothes separately.

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 or respiratory irritation is experienced. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). 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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Multi-color granules
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

Bulk Density: 83.6

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SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage and use conditions. Some components may react if exposed to incompatible materials.

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

Contact with incompatible materials. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Some components of limestone may react vigorously with water and strong acids.

Silica, crystalline : Hydrogen fluoride

Dipropylene glycol: Strong oxidizing agents

10.6 Hazardous decomposition products

The decomposition of fertilizer products may result in the generation of some or all of the following: ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other irritating and toxic fumes and gases.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

2,4-DICHLOROPHENOXYACETIC ACID

LDLo Oral - Rabbit - 800 mg/kg

Result: lowest published lethal dose

Citation: The National Institute for Occupational Safety and Health (NIOSH)

<https://www.cdc.gov/niosh-rtecs/AG682428.html>

2,4-DICHLOROPHENOXYACETIC ACID

LD50 Oral - Rat - > 300 mg/kg

Citation: The National Institute for Occupational Safety and Health (NIOSH)

<https://www.cdc.gov/niosh-rtecs/AG682428.html>

DIPROPYLENE GLYCOL

LD50 Oral - Rat - > 5,000 mg/kg

DIPROPYLENE GLYCOL

LC50 Inhalation - Rat - >2.34 mg/l - 4 h

DIPROPYLENE GLYCOL

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LD50 Skin - Rabbit - > 5,010 mg/kg

Penoxsulam
LD50 Oral - Rat - > 5,000 mg/kg

Penoxsulam
LD50 Skin - Rabbit - > 5,000 mg/kg

Potassium sulfate
LD50 Oral - Rat - 6600 mg/kg

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/irritation

Causes eye irritation.

Potassium sulfate: Causes serious eye irritation.

Respiratory or skin sensitization

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled

Germ cell mutagenicity

No data available

Carcinogenicity

Limestone may contain small amounts of crystalline and amorphous silica as a natural impurity. The International Agency for Cancer Research (IARC) has classified crystalline silica as a carcinogen to humans (Group 1), and amorphous silica as not classifiable as to its carcinogenicity to humans (Group 3). See "Silica, Some Silicates, Coal dust and para-Aramid Fibrils in IARC Monographs on the Evaluation of Carcinogenic Risks to Humans", (Vol. 68).

2,4-DICHLOROPHENOXYACETIC ACID: OSHA specifically regulated carcinogen

Reproductive toxicity

No data available

STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

2,4-DICHLOROPHENOXYACETIC ACID: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects.

Aspiration hazard

No data available.

SECTION 12: Ecological information

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Toxicity

2,4-DICHLOROPHENOXYACETIC ACID

LC50 - Oncorhynchus mykiss (rainbow trout) - 77- 157 mg/kg static - 96 hr

Calcium carbonate (Natural)

LC50 - Oncorhynchus mykiss (rainbow trout) - > 10000 mg/l - 96 hr

DIPROPYLENE GLYCOL

LC50 - Carassius auratus (goldfish) - > 5,000 mg/l - 24 h

DIPROPYLENE GLYCOL

EC50 - Daphnia magna (water flea) - > 100 mg/l - 48 h

Penoxsulam

LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 hr

Potassium sulfate

EC50 - Daphnia magna (water flea) - 720 mg/l - 48 h

Potassium sulfate

LC50 - Pimephales promelas (fathead minnow) - 680 mg/l - 96 h

Persistence and degradability

Penoxsulam: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Bioaccumulative potential

Not expected to bioconcentrate or bioaccumulate.

Penoxsulam: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Mobility in soil

This product is water soluble and may disperse in soil

Results of PBT and vPvB assessment

No data available.

Other adverse effects

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

SECTION 13: Disposal considerations

Disposal of the product

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. See product label for disposal instructions. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative the nearest EPA Regional Office for guidance.

Disposal of contaminated packaging

Non - refillable container. See product label for container disposal instructions.

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Waste treatment

Consult federal, state/provincial and local regulations regarding the proper disposal of this material.

Sewage disposal

Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Quartz (crystalline silica)

CAS-No. 14808-60-7

CERCLA

2,4-Dichlorophenoxyacetic acid (2,4-D) 94-75-7 RQ 100 lbs

3,6-Dichloro-o-anisic acid (Dicamba) 1918-00-9 RQ 1000 lbs

EPA FIFRA Information

This product is registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law (FIFRA). These requirements may differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Certain sections are superseded by federal law governed by EPA for a registered pesticide. Refer to product label for use directions, handling and storage, disposal, first aid and precautionary statements.

Massachusetts Right To Know Components

Chemical name: Quartz

CAS number: 14808-60-7

Chemical name: 3,6-Dichloro-2-methoxybenzoic acid

CAS number: 1918-00-9

Chemical name: Acetic acid, (2,4-dichlorophenoxy)-

CAS number: 94-75-7

New Jersey Right To Know Components

Common name: SILICA, QUARTZ

CAS number: 14808-60-7

Common name: DICAMBA

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CAS number: 1918-00-9

Common name: 2,4-D
CAS number: 94-75-7

Chemical name: Propanol, oxybis-
CAS number: 25265-71-8

Pennsylvania Right To Know Components

Chemical name: Quartz
CAS number: 14808-60-7

Chemical name: Limestone
CAS number: 1317-65-3

Chemical name: Benzoic acid, 3,6-dichloro-2methoxy-benzol diluent
CAS number: 1918-00-9

Chemical name: Acetic acid, (2,4-dichlorophenoxy)-
CAS number: 94-75-7

Chemical name: Propanol, oxybis-
CAS number: 25265-71-8

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372 (2,4-Dichlorophenoxyacetic acid (2,4-D) - 94-75-7) (3,6-Dichloro-o-anisic acid (Dicamba) - 1918-00-9)

SECTION 16: Other information

This safety data sheet was developed from safety data sheets of suppliers of the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or beyond its intended use. This information is based on our present knowledge and is provided according to the relevant national regulations.

16.1 Further information/disclaimer

This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Ferti Technologies. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.

16.2 Preparation information

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