



## SECTION 1: Identification

### 1.1 GHS Product identifier

Product name Nitro 21-0-0

### 1.3 Recommended use of the chemical and restrictions on use

Liquid Fertilizer for Growth

### 1.4 Manufacturer

Name 3Tier Technologies  
Address 413 W. 13th Street  
Sanford FL 32771  
USA  
Telephone (877) -226-7498

### 1.5 Emergency phone number

1-877-226-7498

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Component	Concentration
Urea (CAS no.: 57-13-6; EC no.: 200-315-5)	Not specified*
Ammonium Nitrate (CAS no.: 6484-52-2; EC no.: 229-347-8)	Not specified*

#### Trade secret statement (OSHA 1910.1200(i))

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).



## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center/doctor/physician if you feel unwell.
If inhaled	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Obtain medical attention if breathing difficulty persists.
In case of skin contact	Remove contaminated clothing. Rinse with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention if pain or redness persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention. Call a poison center/doctor/physician if you feel unwell.

### 4.2 Most important symptoms/effects, acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries after inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries after skin contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries after eye contact: May cause slight irritation to eyes.

Symptoms/Injuries after ingestion: Ingestion may cause adverse effects.

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

If exposed or concerned, get medical advice and attention.

## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

### 5.2 Specific hazards arising from the chemical

Not considered flammable.

Hazardous reactions will not occur under normal conditions.

### 5.3 Special protective actions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.



## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal appropriate protective equipment.

### **6.2 Environmental precautions**

Prevent entry to sewers and public waters.

### **6.3 Methods and materials for containment and cleaning up**

Clean up spills immediately dispose of waste safely. Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal. Dispose of materials or solid residues at an authorized site.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Ensure good ventilation of the work station. Wear personal protective equipment. 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 vapor. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Always wash hands after handling the product. Wash contaminated clothing before reuse.

Keep away from children and pets. Do not contaminate any water source.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep only in the original container in a cool, well ventilated place away direct sunlight, extremely high or low temperatures and incompatible materials. Store in temperatures 40°F-78°F. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products: Strong bases. Strong acids. Strong oxidizers. Avoid using containers, pipes and fitting made of aluminum, mild steel, zinc-clad, or copper bearing alloys.

## **SECTION 8: Exposure controls/personal protection**

### **8.2 Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation, especially in confined areas.

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

#### **Eye/face protection**

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Wear protective gloves and suitable protective clothing.

#### **Body protection**

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing



**Respiratory protection**

Wear appropriate mask

**SECTION 9: Physical and chemical properties**

**Basic physical and chemical properties**

Physical state	Liquid
Appearance	Liquid
Color	Dark Brown
Odor	Slight Odor
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	7.05
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	1.214
Relative vapor density	No data available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Avoid interaction with heat (flames), oxidizers, acids or alkalis.

**10.2 Chemical stability**

The product is stable under recommended handling and storage conditions.

**10.3 Possibility of hazardous reactions**

Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness.

**10.4 Conditions to avoid**

Extremely high temperatures or low temperatures. Direct sunlight. Incompatible materials.

**10.5 Incompatible materials**

Strong acids, strong bases.



**10.6 Hazardous decomposition products**

Heating this product will evolve ammonia. Heating to dryness will produce ammonia, ammonium sulfate, sulfur and oxides of sulfur.

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed

Skin: May cause skin irritation.

Eyes: Causes eye irritation.

Inhalation: Causes respiratory tract irritation.

Ingestion: May cause gastrointestinal tract irritation with diarrhea.

May affect behavior/central nervous system (somnolence, convulsions, ataxia). respiration (emphysema), Kidneys (acute renal failure, acute tubular necrosis), blood (hemorrhage). The toxicological properties of this substance have not been fully investigated.

**Skin corrosion/irritation**

Not classified

**Serious eye damage/irritation**

Not classified

**Respiratory or skin sensitization**

Not classified

**Germ cell mutagenicity**

Not classified

**Carcinogenicity**

Not classified

**Reproductive toxicity**

Not classified

**Summary of evaluation of the CMR properties**

Not classified

**Specific target organ toxicity (STOT) - single exposure**

Not classified

**Specific target organ toxicity (STOT) - repeated exposure**

Not classified

**Aspiration hazard**

Not classified



## SECTION 12: Ecological information

### **Toxicity**

This product is not considered harmful to aquatic organisms or cause long-term adverse effects in the environment

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **Other adverse effects**

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### **Disposal methods**

#### **Product disposal**

Dispose of contents/container in accordance with local, state, federal, and international environmental laws and regulations.

#### **Packaging disposal**

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local, regional, national and/or international regulations.

#### **Waste treatment**

Avoid unintentional release to the environment

## SECTION 14: Transport information

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods



## SECTION 15: Regulatory information

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

#### Toxic Substances Control Act (TSCA) Inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### SARA 302 Components

No products were found

#### SARA 311/312 Hazards

No SARA hazards

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other information

Date of Revision: January 2, 2024

Prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

### 16.1 Further information/disclaimer

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