

Safety Data Sheet



PRODUCT NAME: Technigro 21-7-7 Acid Special

SDS #5041

Date of Issue: January 28, 2015

Supersedes: March 6, 2013

1. Product and Company Identification

Product Name: Technigro 21-7-7 Acid Special

Recommended Uses: End-use fertilizer

Restrictions on Uses: None

Manufacturer/Supplier

Sun Gro Horticulture Distribution Inc.
770 Silver Street
Agawam, MA 01001
1-800-732-8667

Distributed in the USA by

Sun Gro Horticulture Distribution Inc.
770 Silver Street
Agawam, MA 01001
1-800-732-8667

Distributed in Canada by

Sun Gro Horticulture Canada Ltd.
52130 RR 65, PO Box 189
Seba Beach, AB T0E 2B0 Canada
1-800-732-8667

For more information: www.sungro.com

For more customer information call:

Western Region: 1-888-797-6497

Central Region: 1-888-982-4500

Eastern Region: 1-888-896-1222

Southeast Region: 1-800-683-7700

Agawam: 1-800-732-8667

Emergency Telephone Number

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident Call **CHEMTREC** Day or Night.

For shipments and products within the US and Canada: 1-800-424-9300

For shipments and products travelling outside of the US and Canada: + 1 703-527-3887

2. Hazards Identification

Classification of the mixture

Classification of the chemical in accordance with 29CFR §1910.1200

Not classified as hazardous

Label elements

Hazard pictograms None applicable

Signal word None applicable

Hazard Statements None applicable

Precautionary Statements None applicable

Other hazards None

Classification of the relevant ingredients of the mixture in accordance with 29CFR §1910.1200

Does not contain any hazardous ingredient

3. Composition/Information on Ingredients

This product is considered as a mixture/preparation

Ingredients	CAS No.	EC No	Concentration
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No substance meeting the classification criteria for health is present over its cut-off value in accordance with OSHA, 29 CFR §1910.1200/2012. This product contains some or all of the following: phosphate salts, sulfate salts, potassium salts, secondary nutrients and micronutrients.

4. First Aid Measures

Description of first aid measures

General information

In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person, person having convulsions, or a person with cramps.

In case of inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty

In case of skin contact

Wash with plenty of soap and water. If skin irritation occurs, get medical attention or advice.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists call a Poison Control Center or a doctor.

In case of ingestion

If able, rinse mouth and drink plenty of water. Do not induce vomiting. Call a Poison Control Center or doctor if feeling unwell.

More important symptoms and effects, both acute and delayed

The following symptoms may occur:

In case of inhalation: Irritation to respiratory tract. Delayed lung effects after short term exposure to thermal degradation products

In case of skin contact: May cause redness or irritation

In case of eye contact: May cause redness or irritation

In case of ingestion: Ingestion of large amounts may cause gastrointestinal disturbances

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. Fire Fighting Measures**Extinguishing media:**

Suitable extinguishing media: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood area with water.

Unsuitable material: None, but attention should be paid to compatibility with surrounding chemicals.

Specific hazards arising from the chemical

Thermal decomposition which can lead to the escape of toxic or corrosive gases and vapors.

Thermal decomposition products: Nitrous oxides (NO_x), nitrates, phosphorus oxides, ammonia and metallic oxides.

Protective equipment and precautions for firefighters

Keep upwind of fire. Wear full firefighting turn out gear (full Bunker gear) and respiratory protection (self-contained breathing apparatus (SCBA)).

6. Accidental Release Measures**Personal precautions**

Provide adequate ventilation Wear personal protection equipment (Section 8).

Environmental precautions

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

Methods and material for containment and clean up

Take up mechanically, placing in appropriate containers for disposal or recovery.

Unsuitable material for containment or taking up: None specified

Other information

None

7. Handling and Storage**Precautions for Safe Handling**

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed.

8. Exposure Controls/Personal Protection**Exposure Guidelines:** Occupational exposure limits

No specific occupational exposure limits for substances in the mixture

OSHA - PEL Not established

STEL/ceiling Not established

ACGIH (2012 TLVs® and BEIs®)

TWA Not established

STEL/ceiling Not established

Engineering controls

Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye/face protection: Chemical goggles recommended.

Skin protection: Nitrile rubber gloves, recommended.

Respiratory Protection: Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits.

General Hygiene Considerations

Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

9. Physical and Chemical Properties

Appearance	Solid, granular or crystalline
Color	Pale Blue
Odor	Odorless
Odor Threshold	Not applicable
pH value	No data available
Melting point/freezing range	No data available
Boiling temperature/boiling range	Not applicable
Flash Point	Not applicable
Vaporization rate/Evaporation rate	No data available
Flammable Solids	Not flammable
Explosion limits (LEL, UEL)	Not applicable
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Solubility	> 100 g/L at 20°C/68°F (water)
Partition coefficient n-octanol/water	Not applicable
Auto Ignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable

Other information

Explosive properties	Not explosive
Oxidizing properties	Not an oxidizer

10. Stability and Reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stable under normal storage and temperature conditions.

Possibility of hazardous reactions

None identified

Conditions to avoid

None identified

Incompatible materials

None identified

Hazardous decomposition products

Thermal decomposition products: Nitrous oxides (NO_x), phosphorus oxides, sulfur oxides, ammonia and metallic oxides.

11. Toxicological Information

The following information refers to major component of the product.

Likely routes of exposure (inhalation, ingestion, and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the skin and eyes. Ingestion of large amounts may cause gastrointestinal disturbances.

Toxicological effects from short and long term exposure (No data for the mixture itself)

Acute toxicity:

Acute oral toxicity

Acute Toxicity Estimate for the mixture

LD50:

> 2000 mg/kg bw (additivity formula)

Assessment/classification: Based on available data for the ingredients of the mixture, the classification criteria are not met

Irritant and corrosive effects:

No data for the mixture itself

Irritation to the skin

Product does not contain relevant ingredients classified as corrosive or irritant to the skin in accordance with OSHA, 29 CFR §1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Irritation to the eyes

Product does not contain relevant ingredients classified as serious eye damage/eye irritant in accordance with OSHA, 29 CFR §1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Respiratory or skin sensitization

No data for the mixture itself. Product does not contain ingredients classified as a respiratory or skin sensitizer present at or above cut-off value in accordance with OSHA, 29 CFR §1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Genetic effects:

Product does not contain ingredients classified as germ cell mutagens present at or above cut-off value in accordance with OSHA, 29 CFR § 1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met.

Reproductive toxicity:

Product does not contain ingredients classified as a category 1 or category 2 reproductive toxicant or for effects on or via lactation present at or above cut-off value in accordance with OSHA, 29 CFR § 1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure)

No data for mixture itself.

Product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR § 1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

No data for mixture itself.

Product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR § 1910.1200.

Assessment/classification: Based on available data, the classification criteria are not met

Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard.

Assessment/classification: Based on available data, the classification criteria are not met

Carcinogenicity

International Agency for Research on Cancer (IARC)

Product does not contain ingredients classified as carcinogens

National Toxicology Program (NTP)

Product does not contain ingredients classified as carcinogens

29 CFR part 1910, subpart Z

Product does not contain ingredients classified as carcinogens

California Proposition 65

Product does not contain ingredients classified as carcinogens

WHO (2003) Nitrate in drinking water

No association between nitrate exposure in humans and the risk of cancer

Assessment/classification: Based on available data, the classification criteria is not met

Other Toxicological Information

None

12. Ecological Information

No data for the mixture, information refers to major component of product.

Ecotoxicity

Aquatic Toxicity

Product does not contain ingredients classified as marine pollutant as defined in DOT, 49 CFR 171.8

Assessment/classification: Based on available data, the classification criteria are not met

Persistence and degradability

This product contains mainly inorganic sulfate and phosphate salts. In aqueous solutions, these salts dissociate into their respective ions. Phosphate ions are finally incorporated into the P-cycle. In anaerobic conditions, bacteria oxidizes ammonium to nitrite which is further oxidized into nitrate.

Bioaccumulative potential

Low potential for bioaccumulation based on physicochemical properties of the main components.

Mobility in soil

The components of this mixture have a low potential for adsorption. Portion not taken up by plants can leach to groundwater.

Other adverse effects

Excess nitrate leaching may enrich waters leading to eutrophication.

13. Disposal Considerations

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

Product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

14. Transportation Information**US DOT (49CFR part 172)**

UN No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

International Maritime Organization (IMDG Code)

UN No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard Class	Not applicable
Packing group	Not applicable
Marine pollutant	No
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

Air transport (ICAO-TI/IATA-DGR)

UN No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No

Special handling procedure

None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other special precautions

None

15. Regulatory Information**US Federal**

SARA Title III Rules

Section 311/312 Hazard Classes

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Release of Pressure	No
Reactive Hazard	No

Section 313 Toxic Chemicals

Ingredients not listed

Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

Ingredients not listed

NFPA 704: National Fire Protection Association

Health	1
Fire	0
Reactivity	0
Special	None

US State Regulations

California Proposition 65 Ingredients not listed

Chemical Inventories

United States TSCA	All ingredients are listed
Canada DSL	All ingredients are listed
European Union (EINECS)	All ingredients are listed
Japan (METI)	All ingredients are listed

16. Other Information

This SDS complies with 29 CFR part 1910 subpart Z (2012) and ANSI Standard Z400.1-2004

The information contained in this SDS is provided without warranty of any kind, express or implied. The information contained herein is made available solely for consideration, investigation, and verification by the original recipients hereof. Users should consider this information only as a supplement to other information gathered by or available to them. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials for the safety and health of employees, customers, and the environment. This hazard information is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable national, federal, state, provincial, and local laws and regulations regarding safety, occupational health, right to know, and environmental protection.