

Nitro-28 (28-0-0)

Section 1 -- IDENTIFICATION

1.1. Product Identifier

Product name: Nitro-28 (28-0-0)
Synonym: Liquid Fertilizer Solution

1.2. Recommended Use / Restrictions

Identified Uses: For turf, ornamentals, trees, crops, hydroponics & soil remediation
Restrictions: N/A

1.3. Supplier Details

Company: Growth Products, Ltd.
80 Lafayette Avenue
White Plains, NY 10603-1603 USA
+011 914-428-1316 (9 am - 5 pm EST Mon - Fri)
questions@growthproducts.com

1.4. Emergency Telephone Number

Emergency Telephone: +011 914-428-1316 (9 am - 5 pm EST Mon - Fri)

Section 2 -- HAZARD(S) IDENTIFICATION

2.1. Classification of substance or mixture

Target Organs: Eyes, Skin, Respiratory system (lungs)
Physical Hazards: N/A
Health Hazards: Skin Irrit. 2 - H315
Eye Irrit. 2A - H319
STOT SE, 3 - H335
Environmental Hazards: Not Classified

2.2. Label Elements

Pictogram:



Signal Word:

WARNING!

Hazard Statements:

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statements:

P264 Wash hands/face/exposed skin thoroughly after handling
P261 Avoid breathing mist vapours, spray.
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/eye and face protection
P302+P352 IF ON SKIN: Wash with plenty of water
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.

Precautionary Statements continued...

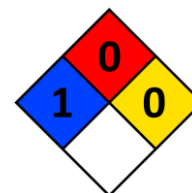
P312 Call Poison Center/Doctor if you feel unwell.
 P332+P313 If skin irritation or rash occurs: Get medical advice/attention
 P337+P313 If eye irritation persists: Get medical advice/attention
 P362+P364 Take off contaminated clothing and wash it before reuse
 P403+P233+P405 Store in a well-ventilated place. Keep container tightly closed. Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other Hazards

This product does not contain any substance classified as PBT or vPvB

NFPA Ratings

| | | |
|-------------------------|------------|--------------------|
| Health: | 1 | Slightly hazardous |
| Flammability: | 0 | Will not burn |
| Reactivity: | 0 | Stable |
| Specific Hazard: | N/A | Not applicable |



HMIS Ratings

| | | |
|------------------------|----------|-----------------------------------|
| Health: | 0 | Minor hazard |
| Flammability: | 0 | Minimal hazard |
| Reactivity: | 0 | Minimal hazard |
| Personal (PPE): | C | Goggles, Gloves, Protective Apron |

| | | |
|----------------------------|----------------|---|
| Health | <i>minor</i> | 1 |
| Flammability | <i>minimal</i> | 0 |
| Physical Hazard | <i>minimal</i> | 0 |
| Personal Protection | | C |

Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Chemical Name | CAS Registry No. | REACH No. | ENECs No. | Classification |
|------------------|------------------|-----------|-----------|--|
| Urea: | 57-13-6 | - | - | <u>GHS-US</u> Skin Irrit. 2 H315 Eye Irrit. 2B- H320 STOT SE 3 H335 |
| Methylene diurea | 13547-17-6 | - | - | <u>GHS-OHSA</u> Eye Irrit. 2A - H319 |

Section 4 -- FIRST-AID MEASURES

4.1. Description of first-aid measures

Inhalation: Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if symptoms are severe or persist.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed by a healthcare professional. Rinse mouth thoroughly with water. Get medical attention if any symptoms develop.

Skin Contact: Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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

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|--|---|
| Inhalation: | May cause respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest. |
| Ingestion: | Ingestion may cause nausea, vomiting and stomach and digestive irritation. There may be soreness and redness of the mouth and throat. |
| Skin Contact: | Skin contact may cause redness and irritation. Prolonged or repeated skin contact can result in the development of allergy-like skin reactions (e.g., dermatitis, rashes) |
| Eye Contact: | There may be irritation and redness. Profuse watering of the eyes. |
| 4.3. Indication of any immediate medical attention and special treatment needed | |
| Notes for doctor: | No specific recommendations. If in doubt, get medical attention promptly. Treatment may vary with the condition of victim and specifics of incident. |
| Specific treatments: | Eye bathing equipment should be available on the premises. |

Section 5 -- FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding environment. The substance itself does not burn.

Unsuitable extinguishing media: N/A

Environmental Hazards:**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products: N/A

5.3. Advice for firefighters

Protective actions during firefighting: No specific firefighting precautions known. Irritant, non-flammable, water soluble. Do not inhale gases created by fire. Do not allow run-off from firefighting to enter drains or watercourses.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) eye protection and appropriate protective clothing.

Section 6 -- ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleanup

Methods for cleaning up: Stop leak if possible without risk. Contain and absorb spillage with sand, earth or other noncombustible material. Transfer to a container for disposal. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

Section 7 -- HANDLING AND STORAGE**7.1. Precautions for Safe Handling**

Using precautions: Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage precautions: Store in tightly closed original container in a dry, cool and well-ventilated place. Store at temperatures above 5°C. Keep away from heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters

Occupational exposure limits

| Material | Type | Value | Source |
|---------------------|-----------|---|-----------|
| Urea (CAS 57-13-6): | ACGIH-TWA | 10 mg/m ³ , inhalation particulate | USA-ACGIH |
| | OSHA-PEL | 5 mg/m ³ , respirable particulate | |

8.2. Exposure controls

Protective equipment

General information:

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Appropriate engineering controls:

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

Eye / face protection:

Use chemical splash-type goggles. Face shield.

Hand protection:

For hand protection, wear approved gloves made of nitrile, PVC, or neoprene. Thoroughly rinse the outside of gloves with water prior to removal. Inspect regularly for leaks.

Other skin and body protection:

For body protection wear suitable protective clothing.

Hygiene measures:

Avoid breathing vapors, mist or gas. Clean water should be available for washing in case of eye or skin contamination.

Respiratory protection:

If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA) or other approved air-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)).

Environmental exposure controls:

Eye bathing equipment should be available on the premises. Provide quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

Equipment:

HMIS Letter:

C



Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

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|-----------------------------------|--------------------------------|-----------------------------|-------------------------|
| Physical State: | Liquid | Evaporation Rate: | Same as water |
| Color | Green | Boiling Point: | About 210°F / 99°C |
| Odor: | Musty Odor | Freezing Point: | >32°F / 0°C |
| Weight per Gallon / Liter: | 10.38# @ 70°F / 1.24 Kg @ 21°C | Viscosity: | 3-35 cps @ 21 Degrees C |
| Storage Life at 70F: | >2 years | Flash Point/Method: | Noncombustible |
| pH – 21C: | 10.5-11 | Vapor Pressure: | Equivalent to water |
| Solubility: | Completely Miscible | Storage Temperature: | Above 40°F / 4°C |

Section 10 -- STABILITY AND REACTIVITY

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| 10.1. Reactivity | |
| Reactivity: | Stable |
| 10.2. Chemical Stability | |
| Stability: | Stable under normal recommended storage conditions. |
| 10.3. Possibility of Hazardous Reactions | |
| Possibility of hazardous reactions: | N/E |
| 10.4 Conditions to Avoid | |
| Conditions to avoid: | Exposure to extreme temperatures and incompatible materials. |
| 10.5 Incompatible Materials | |
| Materials to avoid: | N/E |
| 10.6 Hazardous Decomposition Products | |
| Hazardous decomposition products: | CO, CO ₂ , NH ₃ , Aldehydes (including formaldehyde) particulate matter & other organic compounds. |

Section 11 -- TOXICOLOGICAL INFORMATION

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|--|--|
| 11.1. Information on Toxicological Effects | |
| Toxicological effects: | N/E. No data available. |
| Over Exposure, Acute: | Liquid contact may cause slight eye irritation and repeated skin exposure may cause skin irritation. |
| Over Exposure, Chronic: | N/E |
| Routes of Exposure: | Not expected to be harmful under normal conditions of use, however if allowed to become airborne, may cause irritation of the nose, throat and lungs. May cause irritation on prolonged or repeated contact. |
| Acute, Dermal LD₅₀: | N/E |
| Acute, Oral LD₅₀: | N/E |
| Effects to eyes: | No corneal or iridal effects were noted at dose of 0.1 ml. rabbits, may cause irritation. |
| Effects to Ingestion | Non-toxic and non-pathogenic, may cause irritation |
| Effects to skin: | Moderate irritation, reversible within 7 days |
| Carcinogenicity Data: | N/E |
| 11.2 Toxicological information on main components of the mixture: | N/E. No data available. |

Section 12 -- ECOLOGICAL INFORMATION

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| Ecotoxicity: | |
| 12.1. Toxicity | This material is not classified as hazardous. Use according to good working practices. |
| 12.2. Persistence and degradability | N/E |
| 12.3. Bioaccumulative potential | Expected to desorb fairly rapidly from soil and not bioaccumulate. |
| 12.4. Mobility in Soil | This product is biodegradable in soil by microbial activity. |
| 12.5. Results of PBT and vPvB Assessment | Not listed in EIS PBT List. |
| 12.6. Other Adverse Effects | N/E |

Section 13 -- DISPOSAL CONSIDERATIONS

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|--------------------------------------|--|
| 13.1. Waste Treatment Methods | |
| Disposal methods: | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product, residue and/or container. |

The information offered in Section 13 is for the product as shipped.

Section 14 -- TRANSPORTATION INFORMATION

General Product is a non-regulated material; not flammable, not corrosive, not explosive and not radioactive.
In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

| Regulatory Information | 14.1 UN Number | 14.2 Proper Shipping Name | 14.3 Class(es) | 14.1 Packing Group | 14.5 Environmental Hazard | 14.6 Special Precautions For User | Additional Information |
|------------------------|----------------------------------|---------------------------|----------------|--------------------|------------------------------------|-----------------------------------|------------------------|
| ADR / RID Class | Not regulated for transportation | Not regulated | Not regulated | Not regulated | Not classified as marine pollutant | N/A | N/A |
| ADNR Class | Not regulated for transportation | Not regulated | Not regulated | Not regulated | Not classified as marine pollutant | N/A | N/A |
| IMDG Class | Not regulated for transportation | Not regulated | Not regulated | Not regulated | Not classified as marine pollutant | N/A | N/A |
| IATA class | Not regulated for transportation | Not regulated | Not regulated | Not regulated | Not classified as marine pollutant | N/A | N/A |

14.7. Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code N/A

Section 15 -- REGULATORY INFORMATION

15.1. Safety, health and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU legislation: This product is labeled in accordance EU directives. The Dangerous Substance Directive (Directive (67/548/EEC, "DSD"), The Dangerous Preparations Directive (Directive 1999/45/EC, "DPD") and the new regulations classification, labeling and packaging of substances and mixtures, Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of May 2010.

US Federal: CAS 57-13-6 is listed on the TSCA inventory. SARA code for CAS # 57-13-6: acute, health hazard. None listed under TSCA Section 12b.

15.2. Chemical Safety Assessment: See Section 2.3 for NFPA & HMIS Ratings

Section 16 - OTHER INFORMATION

REVISED DATE: 30 May 2017

Other Precautions:

Abbreviations / Acronyms:

Read entire label before using

- N/E Not Established
- ACGIH American Conference of Governmental Industrial Hygienists
- TLV Threshold Limit Values
- REL Recommended Exposure Limit
- OSHA Occupational Safety and Health Administration
- NIOSH National Institute for Occupational Safety and Health
- TWA Time Weighted Average over 8 hours of work
- REL Recommended Exposure Limit
- PEL Permissible Exposure Limit
- STEL Short Term Exposure Limit during x minutes
- IDLH Immediately Dangerous to Life or Health
- TSCA Toxic substance Control Act (United States)
- DSL Domestic Substance List (Canada)
- EINECS European Inventory of Existing Commercial Chemical Substances (Europe)
- ELINCS European List of Notified Chemical Substances (Europe)
- ENCS Existing Chemical Substances
- N/A Not applicable



SAFETY DATA SHEET

| | |
|---------|---|
| IECSC | Inventory of Existing Chemical Substances |
| KECL | Korea Existing Chemicals Inventory |
| PICCS | Philippines Inventory of Chemical and Chemical Substances |
| AICS | Australian Inventory of Chemical Substances |
| NZIoC | New Zealand Inventory of Chemicals |
| HMIS | Hazardous Material Identification System (American Coatings Association) |
| NFPA | National Fire Protection Association |
| PBT | Persistent Bioaccumulative and Toxic |
| vPvB | Very Persistent and very Bioaccumulative |
| STOT SE | Specific Target Organ Toxicity; Single Exposure |
| STOT RE | Specific Target Organ Toxicity; Repeated Exposure |
| GER-MAK | Germany Maximum Workplace Concentration |
| DOT | Department of Transportation |
| TDG | Transportation of Dangerous Goods (Canada) |
| ADR | European Agreement Concerning the International Carriage of Dangerous Goods by Road |
| RID | Regulations Concerning the International Carriage of Dangerous Goods by Rail (EU) |
| ADNR | Regulation for the Carriage of Dangerous Substances on Waterways (EU) |
| IMDG | International Maritime Dangerous Goods |
| ICAO | International Civil Aviation Organization |
| IATA | International Air Transport Association |

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