



1. Identification

Product name 30-0-0 UAN
Product code 3000
Other Identification: **Chemical Family:** Aqueous solution of ammonium nitrate and urea
Formula: Not applicable- mixture
Recommended use Turf, Horticulture & Agriculture -Inorganic Salt Solution
Manufacturer & Distributor information
Corporate Office **Plant Food Company, Inc.**
 38 Hightstown-Cranbury Station Road
 Cranbury, NJ 08512 United States
 Information: 1-609-448-0935
Telephone www.plantfoodco.com
Website pfc@plantfoodco.com
E-mail
Contact person **Grant Platz, Ted Platz**
Emergency phone number **1-800-424-9300 CCN725928**
Call CHEMTREC Day or Night Within USA and Canada **or +1 703-527-3887 (collect calls accepted)**
Other Countries 1-609-448-0935

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity, oral
 Serious eye damage/eye irritation
 Specific target organ toxicity, single exposure
 Category 4
 Category 2A
 Category 3
 respiratory tract irritation
 Category 2
Environmental hazards Hazardous to the aquatic environment, acute hazard
OSHA defined hazards Label elements Not classified.
Label elements  
Signal word **Warning**
Hazard statement May intensify fire; oxidiser, Causes serious eye irritation.
Precautionary statement
Prevention Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do
Response If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.
Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information

3. Composition/information on ingredients

Proprietary Ingredients

<u>Chemical Name</u>	<u>Synonym Common Name</u>	<u>CAS Number</u>	<u>EINECS No.</u>	<u>%</u>
Carbonyl Diamide	Urea	57-13-6	200-315-5	45.70
Nitric acid ammonium salt	Ammonium Nitrate	6484-52-2	229-347-8	34.50
Water	Water	7732-18-5	231-791-2	19.80

Other components below reportable levels
 *Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has
Skin contact Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if
Ingestion Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If victim is conscious, give two to four glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.
Most important symptoms/effects, acute and delayed Irritation of eyes and mucous membranes.
Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



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5. Fire-fighting measures

Flammable Properties:	NFPA: Health - 1 Flammability - 0 Reactivity - 0
Suitable extinguishing media	Non-combustible. Water
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gasses. In case of fire, may produce hazardous decomposition products such as nitrogen oxides (NO, NO ₂ , etc.), ammonia (NH ₃), amines. Vapors are irritating to eyes, skin and respiratory tract.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.
Fire-fighting equipment/instructions	
Specific methods	Move container from fire area if it can be done without risk.
General fire hazards	Heating this product will evolve ammonia

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further

7. Handling and storage

Precautions for safe handling	Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide eyewash station.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear suitable protective clothing. Wash contaminated clothing prior to reuse.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after

9. Physical and chemical properties

Appearance	Clear liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless liquid
Odor	Slight ammonia odor
Odor threshold	Not available.
pH	6.7 - 7.5 (Typical)
Salt-Out / Crystallization Temp	
Melting point/freezing point	0 °F(-17.8°C) (Typical)
Initial boiling point and boiling range	219°F (104.4°C)
Flash point	Not available.
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Vapor density	Not available.
Relative density	1.29(10.86 lbs/gal)
Solubility	Easily soluble in water
Solubility (water)	100%



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Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Data not available
Viscosity 40°F: 6,1 cP, 60°F: 4,7 cP
Other information
Pounds per gallon 10.86 lbs/gal
Shelf life > 2 years

10. Stability and reactivity

Reactivity Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section). Stable under recommended storage and handling conditons. Stable innormal temperatures and pressure.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Stong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness
Conditions to avoid Temperatures above 120°F (49°C)
Incompatible materials Strong oxidizers. Acids will cause the release of sulfur dioxide, a severe respiratory irritant. This product is not compatible with copper, zinc or their alloys including brass, bronze or galvanized materials. These materials should not be utilized in handling systems or storage containers for this product.
Hazardous decomposition products When heated, decomposition products. UAN will form urea-nitrate when mixed with nitric acid at low pH. Urea-nitrate may become unstable and/or explosive under certain conditions.

11. Toxicological information

Information on likely routes of exposure
Oral LD₅₀: > 2,950 mg/kg bw (OECD 401)
Inhalation LC₅₀: > 88.8 mg/l. (no guideline followed)
Skin contact LD₅₀: > 5,000 mg/kg bw (OECD 402)
Eye contact Irritating (OECD 405)
Chronic/Carcinogenicity: No evidence available
Teratology: Data not available.
Reproduction: Data not available.
Mutagenicity: Data not available.

12. Ecological information

Ecotoxicity Data not available.
Persistence and degradability Data not available.
Bioaccumulative potential This product is not bioaccumulative.
Mobility in soil Data not available.
Other adverse effects Data not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,
Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may

14. Transport information

DOT Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

15. Regulatory information

US federal regulations Regulation EC 1907/2006 (REACH), Fertilizer Directive EC 2003/2003
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.
SARA 304 Emergency release notification Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance Not listed.
Section 313 (FORM R): Not applicable



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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other

16. Other information, including date of preparation or last revision

Issue date 6/1/2015

Revision date 7/15/2013

Version # 2

Disclaimer
While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Multiple Properties