

SAFETY DATA SHEET**Section 1: IDENTIFICATION****1.1 PRODUCT IDENTIFIER**

Product Name: 32% UAN; 30% UAN; 29% UAN; 28% UAN
Product Code: NPK Fertilizer 32-0-0
NPK Fertilizer 30-0-0
NPK Fertilizer 29-0-0
NPK Fertilizer 28-0-0

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Industrial use.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Gavilon Fertilizer, LLC
5 Skidaway Village Walk
Savannah, GA 31411 US
Telephone Number: 1-912-598-8392
Website: www.gavilon.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: CHEMTREC For Emergencies Only
1-800-424-9300
Date of Preparation: October 12, 2012

Version #: 4.0

Section 2: HAZARD(S) IDENTIFICATION**2.1 CLASSIFICATION OF THE CHEMICAL**

Hazard class
Serious eye irritation 2A (Eye Irrit. 2A)
Skin Irritation 2 (Skin Irrit. 2)

2.2 LABEL ELEMENTS

Hazard Pictogram:



Signal Word: Warning
Hazard Statement: Causes serious eye irritation. Causes skin irritation
Prevention: Wash eyes and skin thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.
Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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Storage: Not applicable.

Disposal: Not applicable.

2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Ingredient	UN #	H / F / R / *	CAS No	Wt. %
NPK Fertilizer 32-00-00				
Urea		See Section 15.1	57-13-6	35
Ammonium nitrate	UN7021		6484-52-2	45
Water			7732-18-5	20
NPK Fertilizer 30-00-00				
Urea		See Section 15.1	57-13-6	33
Ammonium nitrate	UN7021		6484-52-2	42
Water			7732-18-5	25
NPK Fertilizer 29-00-00				
Urea		See Section 15.1	57-13-6	32
Ammonium nitrate	UN7021		6484-52-2	40
Water			7732-18-5	28
NPK Fertilizer 28-00-00				
Urea		See Section 15.1	57-13-6	30
Ammonium nitrate	UN7021		6484-52-2	40
Water			7732-18-5	30

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Causes serious eye irritation. Symptoms may include discomfort or

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	pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin:	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	May cause stomach distress, nausea or vomiting.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED	
Note to Physicians:	Symptoms may not appear immediately.
Specific Treatments:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Flammability: This product is not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

5.2 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not applicable.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: Acids. Chlorates. Strong oxidizers. Oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Prevent entry into sewers, water courses, basements or confined areas.

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Notify environmental authorities in the event of any reportable release of this product to the environment.

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Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Handle in well-ventilated areas. Avoid breathing vapour or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place.(See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Urea	Not available.	Not available.
Ammonium nitrate	Not available.	Not available.

8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASSURES

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses or goggles to protect from splashes.

Skin Protection:

Hand Protection: Chemical-resistant gloves.

Body Protection: Use personal protective equipment as required.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Health AND Safety Measures: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Wash contaminated clothing before reusing.

SAFETY DATA SHEET**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear.
Color:	Not available.
Odour:	Odorless.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	6.8 - 7.5
Melting Point:	<0 °C (<32 °F)
Boiling Point:	> 100 °C (> 212 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not Flammable.
Lower Flammability/Explosive Limit:	Not available.
Upper Flammability/Explosive Limit:	Not available.
Vapor Pressure:	8.6 – 17.5 mmHg @ 20 °C (68 °F)
Vapor Density:	Not available.
Relative Density/Specific Gravity:	NPK Fertilizer 32-0-0 10.84 (lb/gal) NPK Fertilizer 30-0-0 10.69 (lb/gal) NPK Fertilizer 29-0-0 10.61 (lb/gal) NPK Fertilizer 28-0-0 10.53 (lb/gal)
Solubility:	Soluble.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Explosive Properties:	Not available.
Oxidizing Properties:	Not available.

Section 10: STABILITY AND REACTIVITY**REACTIVITY**

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5 INCOMPATIBLE MATERIALS

Acids. Chlorates. Strong oxidizers. Oxides of carbon.

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10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of nitrogen and ammonia.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

- Eye:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin:** Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Ingestion:** May cause stomach distress, nausea or vomiting.
- Inhalation:** May cause respiratory tract irritation.

Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Urea	1.5 mg/m ³ Total	Not available.	Oral Rat 8471 mg/kg Dermal Rabbit >2000 mg/kg
Ammonium nitrate	Not available.	Inhalation Rat >88.8 mg/L 4 h	Oral Rat 2217 mg/kg Not acutely toxic by dermal exposure

Calculated overall Chemical Acute Toxicity Values

LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Not available	32% UAN - 4093 mg/kg, Rat 30% UAN - 4378 mg/kg, Rat 29% UAN - 4583 mg/kg, Rat 28% UAN - 4633 mg/kg, Rat	Not available.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Urea	Not listed.
Ammonium nitrate	Not listed.

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

- Skin Corrosion/Irritation:** Causes skin irritation.
- Serious Eye Damage/Irritation:** Causes serious eye irritation.
- Respiratory Sensitization:** Based on available data, the classification criteria are not met.
- Skin Sensitization:** Based on available data, the classification criteria are not met.
- STOT-Single Exposure:** Based on available data, the classification criteria are not met.
- Chronic Health Effects:** Based on available data, the classification criteria are not met.
- Carcinogenicity:** This product is not classified as a carcinogen.

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Germ Cell Mutagenicity:	This product is not classified as a mutagen.
Reproductive Toxicity:	
Developmental:	This product does not contain known reproductive or developmental toxins.
Teratogenicity:	Not hazardous by WHMIS/OSHA/NOM-018-STPS-2000 criteria.
Embryotoxicity:	Not hazardous by WHMIS/OSHA/NOM-018-STPS-2000 criteria.
Fertility:	No known significant effects or critical hazards.
STOT-Repeated Exposure:	Based on available data, the classification criteria are not met.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Toxicologically Synergistic Materials:	Not available.
Other Information:	Not available.

Section 12: ECOLOGICAL INFORMATION**12.1 ECOTOXICITY**

Acute/Chronic Toxicity: Not available.

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

Section 13: DISPOSAL CONSIDERATIONS**13.1 WASTE TREATMENT METHODS**

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION**14.1 UN NUMBER**

DOT	TDG	NOM-004-SCT2-1994
Not regulated.	Not regulated.	Not regulated.

14.2 UN PROPER SHIPPING NAME

DOT	TDG	NOM-004-SCT2-1994
Not applicable.	Not applicable.	Not applicable.

14.3 TRANSPORT HAZARD CLASS (ES)

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DOT

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

14.4 PACKING GROUP

DOT

Not applicable.

TDG

Not applicable.

NOM-004-SCT2-1994

Not applicable.

14.5 ENVIRONMENTAL HAZARDS

Not applicable.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not applicable.

14.7 SPECIAL PRECAUTIONS FOR USER

Not applicable.

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Urea	Not listed.	Not listed.	Not listed.	Not listed.
Ammonium nitrate	Not listed.	Not listed.	Not listed.	Aqueous Ammonia Compounds, Nitrate Compounds

State Regulations

California Proposition 65:

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

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Urea	DSL	Yes.
Ammonium nitrate	DSL	Yes.

NFPA - National Fire Protection Association:

Health:	1
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Fire:	1
Reactivity:	0
HMIS - Hazardous Materials Identification System	
Health:	1
Fire:	1
Reactivity:	0

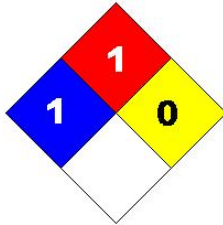
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):
Class D2B - Skin/Eye Irritant

WHMIS Hazard Symbols:



Mexico Classification:



Blue = Health Red = Flammability Yellow = Reactivity White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

- CP65 California Proposition 65**
- OSHA (O) Occupational Safety and Health Administration.**
- ACGIH (G) American Conference of Governmental Industrial Hygienists.**
 A1 - Confirmed human carcinogen.
 A2 - Suspected human carcinogen.
 A3 - Animal carcinogen.
 A4 - Not classifiable as a human carcinogen.
 A5 - Not suspected as a human carcinogen.
- IARC (I) International Agency for Research on Cancer.**
 1 - The agent (mixture) is carcinogenic to humans.
 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
- NTP (N) National Toxicology Program.**
 1 - Known to be carcinogens.
 2 - Reasonably anticipated to be carcinogens.

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Section 16: OTHER INFORMATION

Date of Preparation: October 12, 2012
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End of Safety Data Sheet