SECTION 1: IDENTIFICATION

1.1. Product Identifier
Product Name: Amtrate™ - Ammonium Nitrate Fertilizer
CAS No: 6484-52-2
Formula: NH₄NO₃
Synonyms: AN, Fertilizer Grade Ammonium Nitrate (FGAN), High Density Ammonium Nitrate
STCC: 4918311

1.2. Intended Use of the Product
Uses of the substance/mixture: Fertilizer
Uses advised against: Consumer use

1.3. Name, Address, and Telephone of the Responsible Party
Company
CF Industries Sales, LLC
4 Parkway North, Suite 400
Deerfield, Illinois 60015-2590
847-405-2400
www.cfindustries.com

1.4. Emergency Telephone Number
Emergency Number: 800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Ox. Sol. 3 H272
Eye Irrit. 2A H319
Full text of H-phrases: see Section 16

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US):

![GHS03](image1) ![GHS07](image2)

Signal Word (GHS-US): Warning
Hazard Statements (GHS-US):
H272 - May intensify fire; oxidizer.
H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US):
P210 - Keep away from extremely high temperatures, ignition sources, incompatible materials. No smoking.
P221 - Take any precaution to avoid mixing with combustible material, oxidizable materials, and incompatible materials.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P280 - Wear protective gloves, protective clothing, and eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Flood burning ammonium nitrate fertilizer with large volumes of low pressure water to extinguish.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.
2.3. Other Hazards
Contact with combustible material will increase fire hazard. May undergo detonation if heated under confinement causing pressure buildup or if subjected to strong shocks. Solid ammonium nitrate when sensitized or during decomposition may become unstable and/or explosive. When ammonium nitrate is heated to decomposition, it may produce vapors which contain nitrogen oxides (NOx).

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Overexposure may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia.

2.4. Unknown Acute Toxicity (GHS-US) No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate</td>
<td>(CAS No) 6484-52-2</td>
<td>98 - 100</td>
<td>Ox. Sol. 3, H272, Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

3.2. Mixture
Not applicable
Full text of H-phrases: see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

4.2. Most Important Symptoms and Effects Both Acute and Delayed
General: Eye irritation.

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Ingestion: Ammonium Nitrate: Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and possibly shock.

Chronic Symptoms: Overexposure to this material may result in methemoglobinemia.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention. Hot Ammonium Nitrate burns skin, allowing rapid absorption of Ammonium Nitrate through the skin and toxic effects can occur quite rapidly. Causes methemoglobinemia – emergency response should treat appropriately, such as by intravenous administration of methylene blue in addition to thermal burn treatment.
Amtrate™ - Ammonium Nitrate Fertilizer

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Flood fires involving ammonium nitrate fertilizer with large volumes of low pressure water.

Unsuitable Extinguishing Media: Do not use salt water, carbon dioxide, dry chemicals or foam extinguishers. Never attempt to smother fire, such as by sealing off, closing a compartment, or building’s doors when fire occurs. Do not add steam.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Ammonium nitrate is an oxidizer and as such may increase the flammability and/or explosiveness of other substances.

Explosion Hazard: May undergo detonation if heated under confinement causing pressure buildup or if subjected to strong shocks. Solid ammonium nitrate when sensitized or during decomposition may become unstable and/or explosive. Contamination of ammonium nitrate with oil, diesel fuel, charcoal, sulfur, metal fines or other combustible substances could possibly cause an explosion. If an explosion is expected, surrounding area should be evacuated.

Reactivity: Contact with combustible material will increase fire hazard. Smothering or contact with organic material may cause an explosive situation.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Flood fire area with water from a distance. Move containers from the fire area if you can do it without risk. Do not move cargo or vehicle if cargo has been exposed to heat. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Never attempt to smother fire, such as by sealing off, closing a compartment, or building’s doors when fire occurs. Stay away from tanks due to exploding potential when tanks are exposed to a fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. If tank, rail car or truck is involved in a fire, isolate for 1/2 mile in all directions; also, consider initial evacuation for 1/2 mile in all directions.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Positive pressure self-contained breathing apparatus (SCBA) should be used when there is a potential for inhalation of vapors and/or fumes.


Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections
Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Keep away from combustible material.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).


6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Collect spillage. Spilled ammonium nitrate fertilizer can be reused if kept dry and uncontaminated.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Keep combustibles (wood, paper, oil, etc.) and incompatible materials away from spilled material. Spills that have become contaminated with organic matter or other combustible material may present a fire and explosion hazard. Such material should be shoveled into drums and dissolved in water to obtain at least 50% water solution. After cleaning, flush traces away with water. Contact competent authorities after a spill.
6.4. Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Additional Hazards When Processed: Keep away from open flames, hot surfaces and sources of ignition. When heated to decomposition ammonium nitrate emits nitrous oxide and water vapors and may explode if confined. Avoid dust production. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. See NFPA 400: Hazardous Materials Code (latest edition) for all the fire and life safety requirements applicable to handling, storage, and use of this material.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technoical Measures: Comply with applicable regulations. Storage construction should be of non-combustible materials and preferably equipped with an automatic sprinkler system. Storage should be designed for safe release of pressure. Ensure ammonium nitrate is stored in accordance with all applicable local, regional, national, provincial, and territorial regulations, including 29 CFR 1910.109(i). Contact your local authority having jurisdiction to determine any additional specific handling, storage and approval requirements. See NFPA 400: Hazardous Materials Code (latest edition) for all the fire and life safety requirements applicable to handling, storage, and use of this material.

Storage Conditions: Store in well-ventilated area away from acute fire hazards and easily oxidizable materials. Avoid contamination. Do not store near dynamite, blasting caps or other explosives. Store away from combustible materials, extremely high temperatures, ignition sources, incompatible materials. Floor drains, recesses or other areas of possible confinement should be eliminated to prevent entrapment of flowing molten ammonium nitrate during fire. Product is mildly corrosive to concrete and steel structures. Avoid materials made of copper and bronze.


7.3. Specific End Use(s)
Fertilizer

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
For substances listed in Section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

8.2. Exposure Controls
Appropriate Engineering Controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when toxic gases may be released. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Provide sufficient ventilation to keep ammonia vapors below the permissible exposure limit.


Materials for Protective Clothing: Flame retardant antistatic protective clothing.
Amtrate™ - Ammonium Nitrate Fertilizer

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Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical safety goggles.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Environmental Exposure Controls: Do not allow the product to be unintentionally released into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Solid prills or granules (deliquescent solid)</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>6 - 7 (10% solution)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>311 - 337°F (155 - 169°C)</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>410°F (210°C)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>58-62 lb/ft³</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.72 @ 70°F (21°C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>High.</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Contaminated material may form shock sensitive compounds that may explode when dry.</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>80.05</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Ammonium nitrate starts to dissociate and decompose at temperatures above 410°F. Upon decomposition, it emits nitrogen oxide (NOx) and water vapors and may explode if confined. Hazardous decomposition products can include ammonia, oxides of nitrogen, and nitric acid. If the product has been contaminated with another substance, the decomposition temperature and effects of the decomposition may be varied. See Incompatible Materials.

10.2. Chemical Stability: Ammonium nitrate is an oxidizer and as such may increase the flammability and/or explosiveness of other substances. Ammonium nitrate fertilizer does not have the property of spontaneous combustion.

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.


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Nitrite, Potassium Permanganate, Sawdust, Sodium Chloride, Sodium Perchlorate, Sugar, Sulfide Ores, Sulfur, Tin, Titanium, Trinitroanisole, Wood Chips and Zinc.


SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
pH: 6 - 7 (10% solution)
Serious Eye Damage/Irritation: Causes serious eye irritation.
pH: 6 - 7 (10% solution)
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation.
Symptoms/Injuries After Skin Contact: May cause skin irritation.
Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
Symptoms/Injuries After Ingestion: Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and possibly shock.
Chronic Symptoms: Overexposure to this material may result in methemoglobinemia.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat (mg/kg)</th>
<th>LC50 Inhalation Rat (mg/l/4h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium nitrate (6484-54-2)</td>
<td>2217</td>
<td>&gt; 88.8</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Can be toxic to aquatic life, and spills may cause algae blooms in static waters.

12.2. Persistence and Degradability

Amtrate™ - Ammonium Nitrate Fertilizer
Persistence and Degradability: Not established.

12.3. Bioaccumulative Potential

Amtrate™ - Ammonium Nitrate Fertilizer
Bioaccumulative Potential: Not established.

Ammonium nitrate (6484-54-2)
BCF Fish 1 (no bioaccumulation expected)
Log Pow: -3.1 (at 25 °C)

12.4. Mobility in Soil: Not available
12.5. Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Additional Information: Clean up even minor leaks or spills if possible without unnecessary risk.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT
Proper Shipping Name: AMMONIUM NITRATE (with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance)
Hazard Class: 5.1
Identification Number: UN1942
Label Codes: 5.1
Packing Group: III
ERG Number: 140

14.2. In Accordance with IMDG
Proper Shipping Name: AMMONIUM NITRATE (with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance)
Hazard Class: 5.1
Identification Number: UN1942
Label Codes: 5.1
Packing Group: III
EmS-No. (Fire): F-H
EmS-No. (Spillage): S-Q

14.3. In Accordance with IATA
Proper Shipping Name: AMMONIUM NITRATE (with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance)
Hazard Class: 5.1
Identification Number: UN1942
Packing Group: III
Label Codes: 5.1
ERG Code (IATA): 5L

14.4. In Accordance with TDG
Proper Shipping Name: AMMONIUM NITRATE (with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance)
Hazard Class: 5.1
Identification Number: UN1942
Packing Group: III
Label Codes: 5.1

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

| Amtrate™ - Ammonium Nitrate Fertilizer | Immediate (acute) health hazard |
| SARA Section 311/312 Hazard Classes | Reactive hazard |

19 February 2016 EN (English US)
Amtrate™ - Ammonium Nitrate Fertilizer

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Classified according to the UN-GHS as adopted in the US Hazard Communication Standard (HCS 2012), the Canada Hazardous Products Regulations (WHMIS 2015) and Mexico NOM-018-STPS-2000

### 15.2. US State Regulations

<table>
<thead>
<tr>
<th>Ammonium nitrate (6484-52-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.3. Canadian Regulations

<table>
<thead>
<tr>
<th>Amtrate™ - Ammonium Nitrate Fertilizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHMIS Classification</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ammonium nitrate (6484-52-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>

| WHMIS Classification                  | Class C - Oxidizing Material |
|                                       | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date**: 19 February 2016

**Revision Comments**:
- Section 1.2 updated
- Section 14.2 updated

**GHS Full Text Phrases**:

<table>
<thead>
<tr>
<th>Eye Irrit. 2A</th>
<th>Serious eye damage/eye irritation Category 2A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ox. Sol. 3</td>
<td>Oxidizing solids Category 3</td>
</tr>
<tr>
<td>H272</td>
<td>May intensify fire; oxidizer</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>
**NFPA Rating**

- **Health Hazard**: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- **Fire Hazard**: 0 - Materials that will not burn.
- **Reactivity**: 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation.
- **Specific Hazard**: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.

**HMIS III Rating**

- **Health**: 2 Moderate Hazard - Temporary or minor injury may occur
- **Flammability**: 0 Minimal Hazard
- **Physical**: 3 Serious Hazard

**Party Responsible for the Preparation of This Document**

CF Industries, Corporate EHS Department, 847-405-2400

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

*CF believes the information contained herein is accurate; however, CF makes no guarantees or warranties with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein by CF is not intended to be and should not be construed as legal advice or as ensuring compliance by other parties. Judgments as to the suitability of the information contained herein for the party’s own use or purposes are solely the responsibility of that party. Any party handling, transferring, transporting, storing, applying or otherwise using this product should review thoroughly all applicable laws, rules, regulations, standards and good engineering practices. Such thorough review should occur before the party handles, transfers, transports, stores, applies or otherwise uses this product.*

North America GHS US 2012 & WHMIS 2