

## Material Safety Data Sheet

### Nitamin® 30L Nitrogen Fertilizer 30-0-0

#### Section 1. Chemical Product and Company Identification

<b>Product / Trade Name</b>	Nitamin® 30L Nitrogen Fertilizer 30-0-0		
<b>Synonyms</b>	RUAG 4351		
<b>Chemical Family</b>	Modified Triazone Polymer		
<b>Chemical Formula</b>	Proprietary	<b>U.S. Patent No. :</b>	6,632,262
<b>Manufacturer</b>	<b>Georgia-Pacific Chemicals LLC</b> 2883 Miller Road Decatur, GA 30035 (770) 593-6874 (Non-Emergency)		
<b>Emergency Phone (24 hours):</b>	<b>CHEMTREC 1-800-424-9300</b>		

#### Section 2. Composition and Information on Ingredients

Hazardous Components	CAS #	% by Weight	ACGIH TLV™	OSHA PEL
Not applicable *				

\* Levels are below reportability requirements determined by the OSHA Hazard Communication Standard (HCS).

#### Section 3. Hazards Identification

<b>HMIS</b>	<b>Health Hazard</b>	<b>2</b>	<b>Note:</b> Personal protective equipment (PPE) is related to conditions of use. Determination of PPE is the responsibility of the employer. Refer to <i>Section 8 (Exposure Controls / Personal Protection)</i> of this MSDS for recommendations.
	<b>Fire Hazard</b>	<b>0</b>	
	<b>Reactivity</b>	<b>0</b>	
	<b>Personal Protection</b>	○	

<b>Emergency Overview</b>	Clear, colorless liquid with a strong amide / amine odor.  Eye irritation or injury may result from exposure to this product. Prolonged contact may cause skin irritation.
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<b>Potential Health Effects</b>	
<b>Eye contact</b>	Contact with liquid or mist may cause mild to moderate eye irritation or injury. Repeated or prolonged exposure to vapors or mist may cause mild to moderate eye irritation. Symptoms may include redness, watering, itching, or a burning sensation in the eyes.
<b>Skin Contact</b>	Not expected to be a primary skin irritant or toxic by skin contact. However, prolonged contact or poor industrial hygiene practices may cause mild to moderate skin irritation.

<b>Inhalation</b>	This product is not expected to be toxic by inhalation. However, prolonged inhalation of vapors or mist may be irritating to the nose, throat, and lungs. Symptoms may include coughing or shortness of breath, nausea, headaches, or dizziness.
<b>Ingestion</b>	Not expected to be orally toxic. In normal industrial use, ingestion is not considered a probable route of exposure.
<b>Chronic</b>	The effects of long term exposure to this product are not known.  This product contains compounds that may release ammonia when heated. Prolonged or repeated overexposure to ammonia vapors may harm the eyes, mucous membranes, and/or upper respiratory tract.
See <u>Section 11</u> Toxicological Information for additional information.	

#### **Section 4. First Aid Measures**

<b>Eye contact</b>	Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Remove to fresh air. Rest in half-upright position. Get medical attention if necessary.
<b>Ingestion</b>	If conscious, immediately rinse mouth and give large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

#### **Section 5. Fire and Explosion Data**

<b>Fire Hazards</b>	Not classified as flammable or combustible. Organic solids may burn, but only after removal of water and exposure to intense heat and flame.
<b>Flash Point</b>	None to boiling. [Pensky-Martens Closed Cup]
<b>Flammable Limits (% by volume)</b>	Not applicable.
<b>Extinguishing Media</b>	Use water spray, dry chemical, or carbon dioxide.
<b>Fire Fighting Instructions</b>	Use self contained breathing apparatus and protection for skin.
<b>Combustion Products</b>	Irritating fumes and toxic gases.
<b>Special Hazards</b>	None known.

#### **Section 6. Accidental Release Measures**

<b>Spill and Leak Procedures</b>	<ul style="list-style-type: none"> <li>• Stop leak if you can do so without risk.</li> <li>• Use PPE appropriate to spill size and risk of exposure.</li> <li>• Confine spillage and absorb on sand, sawdust, or other available solids.</li> <li>• Uncontaminated spilled material may be reused.</li> <li>• Retain all contaminated water for removal and treatment. DO NOT flush to sewer.</li> </ul>
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**Section 7. Handling and Storage**

<b>Handling</b>	<ul style="list-style-type: none"> <li>• Avoid eye contact. Avoid repeated or prolonged skin contact. Use proper protective equipment. (see <a href="#">Section 8</a>)</li> <li>• Avoid breathing mist or vapor. Use only in a well ventilated area.</li> <li>• Unvented containers may develop pressure. Open with caution.</li> <li>• Wash thoroughly after handling.</li> <li>• Eyewash stations and safety showers should be easily accessible to areas where product is used.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Covered storage of portable containers is recommended.</li> <li>• Keep containers closed when not in use.</li> <li>• For maximum storage life, store at temperatures below 77°F (25°C).</li> <li>• Protect from freezing.</li> <li>• Store away from incompatible materials. (see <a href="#">Section 10</a>)</li> </ul>

**Section 8. Exposure Controls / Personal Protection**

<b>Personal Protective Equipment (PPE)</b>	<b>Eyes and Face:</b> Face shield with safety glasses or chemical safety goggles.		
	<b>Skin:</b> Rubber or neoprene gloves. Wear additional protective clothing as appropriate to protect skin.		
	<p><b>Respiratory:</b> None required under normal conditions of use. However, if feasible engineering controls do not prevent overexposure, a full-face respirator with cartridges approved by NIOSH/MSHA for ammonia vapors and dusts/mists may be used only when exposure levels are known to be within the unit's capability.</p> <p>Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any situation where air purifying respirators may not provide adequate protection.</p> <p>Observe the OSHA respirator regulations cited in <a href="#">29 CFR 1910.134</a>.</p>		
<b>Engineering Controls</b>	Use ventilation as necessary to keep exposure to airborne contaminants below the exposure limits.		
	Ammonia	<u>ACGIH TLV</u> TWA: 25 ppm STEL: 35 ppm	<u>OSHA PEL</u> TWA: 50 ppm

**Section 9. Physical and Chemical Properties**

<b>Physical appearance</b>	Clear, colorless liquid
<b>Odor</b>	strong amide / amine
<b>pH (as is)</b>	approximately 10.1
<b>Boiling Point</b>	approximately 212°F (100°C)
<b>Melting Point</b>	not applicable
<b>Weight per Gallon</b>	approximately 10.3 lbs/gal @ 25°C
<b>Vapor Pressure (mm Hg)</b>	not available
<b>Vapor Density</b>	not available
<b>% Volatile (w/w)</b>	approximately 30%
<b>Solubility in Water</b>	soluble

**Section 10. Stability and Reactivity Data**

<b>Chemical Stability</b>	This product is stable under the recommended storage conditions.
<b>Conditions to Avoid</b>	Avoid storage in unagitated bulk tanks above the recommended storage temperature. (see <a href="#">Section 7</a> )
<b>Incompatibility with Other Materials</b>	Avoid contact or contamination with strong oxidizers, or acids.
<b>Hazardous Decomposition Products</b>	Ammonia fumes may be released upon heating. When heated to decomposition this product emits acrid smoke and irritating fumes.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.
<b>Special Remarks</b>	Elevated storage temperatures will shorten product storage life.

**Section 11. Toxicological Information**

<b>Eye</b>	Contact with liquid or mist may cause mild to moderate eye irritation or injury.
<b>Dermal</b>	This product is not expected to be a primary skin irritant or dermally toxic. However, prolonged or repeated exposure may cause mild to moderate skin irritation.
<b>Inhalation</b>	This product is not expected to be acutely toxic by inhalation.
<b>Oral</b>	This product is not expected to be orally toxic.
<b>Chronic Effects</b>	
<b>Carcinogenicity</b>	Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.
<b>Other Chronic Effects</b>	This product contains compounds that may release ammonia when heated. Prolonged or repeated overexposure to ammonia vapors may harm the eyes, mucous membranes, and/or upper respiratory tract.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	This product is biodegradable under aerobic and anaerobic conditions.
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**Section 13. Disposal Considerations**

<b>Waste Disposal</b>	Dispose of absorbed material in accordance with all federal, state, and local regulations. Dispose of contaminated water in a contained waste treatment system.
<b>RCRA</b>	The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. <b>Note:</b> If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

**Section 14. Transportation Information**

<b>DOT</b>	Non-regulated	
<b>Shipping Description</b>	<b>Bulk Shipments</b>	<b>Non-bulk Shipments</b>
<b>Proper Shipping Name</b>	Non-regulated	Non-regulated
<b>Hazard Class</b>	Not applicable.	Not applicable.

Identification Number	Not applicable.	Not applicable.
Packing Group	Not applicable.	Not applicable.
Reportable Quantities	Not applicable.	Not applicable.
Placards / Labels	<b>Placards:</b> Not applicable.	<b>Labels:</b> Not applicable.
Special Provisions for Transport	Not applicable.	Not applicable.

### Section 15. Regulatory Information

**Federal Regulations** *The following regulations may have reporting requirements for the components listed. See "Key to Abbreviations and Acronyms" under Section 16 for definitions.*

**CERCLA / SARA  
Emergency Reporting** A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

**Ammonia**

**SARA Title III  
Section 313  
Supplier Notification** This product is known to contain the following chemicals which are listed in 40 CFR 372.65 as toxic chemicals requiring notification. This information must be included in all MSDS's that are copied and distributed for this product.

<u>Component</u>	<u>CAS #</u>	<u>% by Weight</u>
<b>Not applicable.</b>	---	---

**CWA Section 307** The following chemicals are listed under Section 307 as toxic pollutants not eligible for waiver from best available technology economically achievable (BAT) effluent limitations.

**Not applicable.**

**CWA Section 311** The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA.

**Ammonia**

**TSCA** All components of this product are listed on the Toxic Substances Control Act Inventory or are excluded from listing requirements.

### Other Regulations

Canada: All components of this product are listed on the Canadian Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

### Section 16. Other Information

FDA Status	Not applicable.
Other Special Considerations	<b>CAUTION:</b> Empty containers may contain product residue. Continue to observe recommended safety precautions when handling empty containers.
Supersedes Date	06/26/2006
Section(s) Changed Since Last Revision	1. Chemical Product and Company Identification

**Key to Abbreviations  
and Acronyms**

ACGIH	- American Conference of Governmental Industrial Hygienists
ANSI	- American National Standards Institute
CEIL	- Ceiling value
CERCLA	- Comprehensive Environmental Response, Compensation, and Liability Act
CFR	- Code of Federal Regulations
CWA	- Clean Water Act
DOT	- Department of Transportation
FDA	- Food and Drug Administration
HCS	- Hazard Communication Standard
HMIS	- Hazardous Materials Information System
IARC	- International Agency for Research on Cancer
LC <sub>50</sub>	- The concentration of a material expected to kill 50% of an animal test group.
LC <sub>LO</sub>	- Lowest lethal concentration of a substance
LD <sub>50</sub>	- The dose of a material expected to kill 50% of an animal test group.
LD <sub>LO</sub>	- Lowest lethal dose of a material
MSHA	- Mine Safety and Health Administration
N.O.S.	- Not Otherwise Specified
NFPA	- National Fire Protection Association
NIOSH	- National Institute for Occupational Safety and Health
NTP	- National Toxicology Program
OSHA	- Occupational Safety and Health Administration
PEL	- Permissible Exposure Limit (OSHA)
RCRA	- Resource Conservation and Recovery Act
RQ	- Reportable Quantity
SARA	- Superfund Amendments and Reauthorization Act
STEL	- Short Term Exposure Limit
TLV	- Threshold Limit Value (recommended by ACGIH)
TSCA	- Toxic Substances Control Act
TWA	- Time Weighted Average

Nitamin is a registered trademark of Georgia-Pacific Chemicals LLC.

**IMPORTANT:**

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