



**MATERIAL SAFETY DATA SHEET**

**1. Product Identification**

Product Name: **Urea/APP Solution** Date Issued: August, 2011  
Company: GAC Chemical Corporation  
Emergency Telephone Numbers: GAC Chemicals 877-254-0081  
Chemtrec 800-424-9300

**2. Composition / Information on Ingredients**

Identification: Urea water solution

Urea (CO(NH <sub>2</sub> ) <sub>2</sub> )	CAS#: 57-13-6	25 % - 50 %
Ammonium Polyphosphate	CAS#: 68333-79-9	3 % - 23
Water	CAS#: 7732-18-5	50 % - 60 %

**3. Hazards Identification**

Non hazardous

**4 First Aid Measures**

Inhalation: Not considered normal route of entry. Mist or dust from dried material may cause respiratory irritation  
Skin Contact: Wash off with soap and water. In case of persistent irritation, see a physician  
Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.  
Ingestion: Give 2 or 3 glasses of water and induce vomiting. Call a physician..

**5 Fire-fighting Measures**

Suitable extinguishing media: Use media suitable for the source of fire.  
Special fire-fighting precautions: A self contained breathing apparatus should be worn.  
Unusual fire and explosion hazards: Toxic gas (carbon monoxide, ammonia, nitrogen oxides, cyanuric acid) may be released by decomposition.

**6 Accidental Release Measures**

Personal precautions: Spills may be slippery  
Environmental precautions: Do not contaminate water. Slightly toxic to aquatic life  
Method for cleanup: Use a suitable absorbant (sand, kitty litter) sweep up and place in suitable containers for disposal.

**7 Handling and Storage**

Handling: Avoid contact with skin and eyes. When preparing the working solution ensure there is adequate ventilation.  
Storage: Keep away from heat, acids and strong oxidizers. Avoid using containers, pipes and fittings made of zinc-clad or copper bearing alloys

<b>8</b>	<b>Exposure Controls / Personal Protection</b>
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Engineering controls:	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mist.
Personal protection equipment:	
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection:	Rubber gloves
Eye protection:	safety glasses with side-shields. Chemical goggles and/or face shield. Eyewash fountain in area
Skin protection:	Resistant apron or protective suit if splashing or contact with solution is likely.

<b>9</b>	<b>Physical and Chemical Properties</b>
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Specific gravity:	1.13 – 1.20	Melting point (° C)	N/A
Appearance:	Green liquid	Flash point (° C)	N/A
Color:	none	autoignition temp (° C)	N/A
pH:	6.5- 10	Vapor pressure (mm Hg)	N/A

<b>10</b>	<b>Stability and Reactivity</b>
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Stability:	Product is stable. No hazardous polymerization will occur.
Conditions to avoid:	Strong oxidizing agents
Hazardous decomposition products:	Thermal decomposition may produce: carbon monoxide, ammonia, nitrogen oxides, phosphate oxides, cyanuric acid, hydrogen cyanide, ammonia,

<b>11</b>	<b>Toxicological Information</b>
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Acute toxicity	
Oral:	LD <sub>50</sub> (rat) >2000 mg/kg

<b>12</b>	<b>Ecological Information</b>
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Fish	LC <sub>50</sub> (fish) / 96 hr > 5000mg/L	(for urea)
Daphnia:	EC <sub>50</sub> / Daphnia / 24 hr > 5000 mg/L	(for urea)

<b>13</b>	<b>Disposal Considerations</b>
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Waste from residues / unused product: In accordance with federal, state and local regulations

<b>14</b>	<b>Transport Information</b>
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Not regulated by DOT

<b>15</b>	<b>Regulatory Information</b>
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All components of this product are on the TSCA and DSL inventories	
RCRA status:	Not a hazardous waste
Hazardous waste number:	N/A
Reportable quantity (40 CFR 302):	N/A
Threshold planning quantity (40 CFR 355):	N/A
California Proposition 65 information:	N/A

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