SAFETY DATA SHEET

Ammonium Polyphosphate Solution, 11-37-00

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name:	APP, Ammonium Polyphosphate Solution, 11-37-00
Guaranteed Analysis	11% N min., 37% P_2O_5 min.
CAS Registry Number:	68333-79-9
Product Use:	Fertilizer, Animal Feed, Industrial
Supplier:	PCI Nitrogen, LLC 713-920-5300 2001 Jackson Rd www.pcicorp.net Pasadena, TX 77506
Emergency Phone #s:	CHEMTREC 1-800-424-9300 (within US)

2. HAZARDS IDENTIFICATION

Physical Hazards:	Not applicable.
Health Hazards:	Not applicable.
OSHA Defined Hazards:	Not applicable.

Label Elements

Hazard Symbol:	None.
Signal Word:	None.
Hazard Statement:	The mixture does not meet the criteria for classification.

Precautionary Statements

Prevention:	Observe good industrial hygiene practices.
Response:	Wash hands after handling.
Storage:	Store away from incompatible materials.
Disposal:	Dispose of waste and residues in accordance with local authority requirements.

Hazard(S) Not Otherwise Classified:	Not classified.
Supplemental Information:	Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	% (w/w)	CAS Number	TLV	PLV
Ammonium Polyphosphate	50 - 60	68333-79-9	N/A	N/A
Water	40 - 50	7732-18-5	N/A	N/A

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. Get medical attention if symptoms develop. Not considered an inhalation hazard under normal open air conditions.
Eye Contact:	Flush eyes immediately and thoroughly with running water for 15 minutes, if irritation persists, get medical attention.
Skin Contact:	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops.
Ingestion:	For small amount, rinse mouth. If a large amount is ingested, give 2-3 glasses of water and induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Conditions of Flammability:	Non Flammable
Extinguishing Media:	This product is essentially non-flammable and is used commercially as a fire retardant. Use media suitable to extinguish source of fire.
Fire Fighting Procedures:	Use fire fighting procedures according to type of fire.
Fire & Explosion Hazards:	When heated, it may release ammonia gas.
Special Firefighting Equipment:	Due to possible evolution of ammonia, wear self-contained breathing apparatus approved by NIOSH. Use water spray to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures

For Non- Emergency Personnel:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For Emergency Responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information "For non-emergency personnel".
Environmental Precautions:	Avoid dispersal of spilt material and runoff and contact with soil waterways drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers waterways soil or air).

Methods And Materials For Containment And Clean Up

Small Spill:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or wipe up spill with absorbent material. Recover the material and use it for its intended purpose. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Large Spill:	Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Dike spilled material, where this is possible with Absorb in vermiculite, dry sand or earth. Recover the material and use it for its intended purpose. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

CAUTION: Spill area may be quite slippery.

7. HANDLING AND STORAGE

Handling:	Avoid breathing mist or vapors, if any should be formed. Unless heated to evolve ammonia or misted by heat, agitation or spraying, natural ventilation should be adequate. Wash thoroughly after handling. Do not empty into drains. Use good personal hygiene and housekeeping.
Storage:	Avoid using containers, pipes and fittings made of zinc-clad, copper-bearing alloys or aluminum. Storage in open containers may result in formation of an ammonium polyphosphate solid on walls. Protect containers from physical damage. Aluminum tanks not recommended because of possible pitting. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	No exposure limits noted for ingredient(s).
Exposure Guidelines:	No exposure limits noted for ingredient(s).
Engineering Controls:	Provide adequate general and local exhaust ventilation where necessary. Provide eyewash station.

Personal Protection Equipment

Eye / Face Protection:	Wear approved safety glasses or goggles when eye contact is possible.

Skin Protection:	Wear suitable gloves when handling this product over long periods. If skin irritation occurs, wear long sleeves.
Respiratory Protection:	Wear NIOSH approved respiratory protective equipment when workplace conditions warrant use of a respirator.
General Hygiene Considerations:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Hand in accordance with good industrial hygiene and safety practices.

9. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Light green
Odor:	Slight ammonia odor
Odor Threshold:	17 ppm (Ammonia)
Boiling Point:	N/A
Bulk Density:	N/A
Cloud Point:	N/A
Evaporation Rate (Butyl Acetate=1):	N/A
Melting/Freezing Point:	32° F
pH:	5.8 – 6.2
Partition Coefficient (n-octanol/water):	N/A
Pour Point:	N/A
Solubility in water:	Easily soluble in cold and hot water
Solubility in other solvents:	N/A
Specific Gravity (H_2O = 1) :	1.40 – 1.45

Vapor Density (Air = 1):	N/A
Viscosity:	80 cps at 75° F
Volatiles (% by weight) :	N/A
Other-Decomposition temperature:	N/A
Conditions of Flammability:	Non Flammable
Flash Point (Method):	N/A
Upper Flammable Limit (% by volume)	N/A
Lower Flammable Limit (% by volume):	N/A
Auto-Ignition Temperature	N/A

10. STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transportation.
Stability:	This product is stable at ambient temperatures and atmospheric pressures.
Conditions to avoid:	Excessive heat.
Incompatible Materials:	Strong oxidizing agents. Bases. Reactive metals. May attack copper, zinc and their alloys.
Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Toxicity Data For Major Components

Ingredient	Test	Result	Route	Species
Ammonium Polyphosphate	LD50 LD50	>2000 mg/kg >5000 mg/kg	Oral Dermal	Rat Rat

Skin:	Prolonged exposure may cause skin irritation.
Eye:	May cause eye irritation on direct contact.
Inhalation:	In high concentrations, vapors may be irritating to the respiratory system.
Ingestion:	May cause discomfort if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability:	This substance will promote algae growth which may degrade water quality and taste.
Bioaccumulative Potential:	No data available for this product.
Mobility in Soil:	This product is water soluble and may disperse in soil.
Other Adverse Effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Product

Methods of Disposal:	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste legislation and any regional local authority requirements.
Hazardous Waste:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste.

Packaging

Methods of Disposal:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should be considered when recycling is not feasible.
Special Precautions:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

Shipping Name:	Not regulated by D.O.T.
Hazard Class:	None.
Reportable Quantity:	None.
Labels Required:	None.
Placard:	None.
C.A.S. Number:	68333-79-9
D.O.T. Number:	None.
Hazard Waste Number:	None.
EPA Registration Number:	None.

15. REGULATORY INFORMATION

US Federal Regulations:	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Section 12(B) Export Notification (40 CFR 707, Subpt.D):	Not Listed.
US OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050):	Not Listed.
CERCLA Hazardous Substance Listed (40 CFR 302.4):	Not Listed.

Superfund Amendments And Reauthorization Act Of 1986 (SARA)

Hazard Categories	
Immediate Hazard:	No
Delayed Hazard:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactivity Hazard:	No
SARA 302 Extremely Hazardous Substance:	No
SARA 311/312 Hazardous Chemical:	No
SARA 313 (TRI Reporting):	Not Regulated.

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:	Not Regulated.
Clean Air Act (CAA) Section 112 Accidental Release Prevention (40 CFR 68.130):) List:	Not Regulated.
Safe Drinking Water Act (SDWA):	Not Regulated.
Food And Drug Administration (FDA):	Not Regulated.

US State Regulations

US California Proposition 65:	This product contains a chemical known to the State of California to cause cancer birth defects or other reproductive harm. Proposition 65 the Safe Drinking Water and Toxic Enforcement Act of 1986 requires notification of potential exposure to substances identified by the State of California as causing cancer birth defects or other reproductive harm.

16. OTHER INFORMATION

Prepared by:	Technical Staff at PCI Nitrogen, LLC. Telephone: 713-920-5300

The information contained in this Material Safety Data Sheet (MSDS) relates only to the specific product(s) designated herein. The information and recommendations are based upon data believed to be current as of the date of this MSDS and was obtained from sources believed to be accurate. However, this information is furnished without warranty, representations, or license of any kind, express or implied, with respect to accuracy, correctness, or completeness and neither PCI Nitrogen, LLC nor its marketing affiliates assume any legal responsibility for use or reliance upon same.