

AMS Extra

Safety Data Sheet Revision Date: 2/20/18

Version 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Name:AMS ExtraProduct Form:MixtureSynonyms:Ammoniur

Ammonium Sulfate; Ammonium Sulphate; Diammonium sulfate; Liquid AMS, 8-0-0-9

1.2. Intended Use of the Product

Agricultural Industry: Fertilizer

1.3. Name, Address, and Telephone of the Responsible Party

Marco NPK 201 East Benton Street Clinton, IL 61727 (217) 935-2178 www.marconpk.com

1.4. Emergency Telephone Number

For Transportation Emergencies call Hazmat Response at (800) 229-5252

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification Not Classified

2.2 Label Flements

GHS-US Labeling:	Not hazardous according to the established criteria.
Hazard Pictograms (GHS-US):	None.
Signal Word (GHS-US):	None.
Hazard Statements (GHS-US):	This mixture does not meet the criteria for classification.
Precautionary Statements (GHS-US):	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.

2.3. Other Hazards

Hazardous to the aquatic environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Ammonium sulfate	(CAS No) 7783-20-2	35-40	Not classified
Water	(CAS No) 7732-18-5	60-65	Not classified
Aliphatic Phosphate Ester, Isopropanol and Glycol Ethers	NA	>1	Not classified
Proprietary blend of antifoaming agents, emulsifier and constituents ineffective as a	NA	>1	Not classified

Proprietary blend of Acid Blue #9, Acid	NA	>1	Not classified
Yellow #23 and inert ingredients			
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:Remove person to fresh air. No known significant effects. Seek medical attention for any signs of
wheezing and/or breathing difficulties. For additional advice call the medical emergency number
on this SDS or your poison center or medical provider.
- Skin Contact:No known significant effects. Rinse the affected areas with water. Remove contaminated clothing,
jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain
or irritation. For additional advice call the medical emergency number on this SDS or your poison
center or medical provider.
- Eye Contact:Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check
for and remove any contact lenses. Get medical attention if irritation occurs.
- Ingestion: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General:Irritation to eyes, skin and respiratory tract.Inhalation:None expected under normal conditions of use. Overexposure may be irritating to the respiratory
system.Skin Contact:May cause mild skin irritation.Eye Contact:May cause eye irritation.Ingestion:If a large quantity has been ingested: Abdominal pain. Diarrhea. Nausea. Vomiting.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: If involved in a fire the following toxic and/or corrosive fumes may be produced by the thermal decomposition: Ammonia. Hydrogen chloride. Chlorine gas. Ammonium sulfate. Sulfur. Oxides of sulfur.

Explosion Hazard: Product is not explosive.

Reactivity: Stable at ambient temperture and under normal conditions of use.

5.3. Advice for Firefighters

Firefighting Instructions: Keep upwind. Under conditions of fire this material may produce: Ammonia. Sulfur. Use water spray or fog for cooling exposed containers.

Protection During Firefighting:Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).Other information:Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1. For Non-Emergency Personnel

Protective Equipment:	Wear suitable protective clothing, gloves and eye/face protection.			
Emergency Procedures:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers			
	or streams. Ventilate area.			
6.1.2. For Emergency Personr	nel			
Protective Equipment:	Wear suitable protective clothing, gloves and eye/face protection.			
Emergency Procedures: If possible, stop flow of product. Contain any spills with dikes or absorbents to preven				
	migration and entry into sewers or streams. Ventilate area.			
6.2. Environmental Pred	cautions			
Prevent entry to sewers and put	olic waters. Contact competent authorities after a spill.			
6.3. Methods and Material for Containment and Cleaning Up				
For Containment:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers			
	or streams.			

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. Do not take up in combustible material such as: saw dust or cellulosic material. Contact competent authorities after a spill.

6.4. Reference to Other Sections

No additional information available.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed:	, When heated, material emits irritating fumes.
Precautions for Safe Handling:	Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.
Hygiene Measures:	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions:	Store tighly closed in a dry, cool and well-ventilated place.
Incompatible Materials:	Copper bearing alloys and aluminum.

7.3. Specific End Use(s)

Agricultural Industry: Fertilizer

SECTION 8: EXPORURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

There are no established Exposure limits.

8.2. Exposure Controls

Appropriate Engineering Controls: Personal Protective Equipment:

Ensure adequate ventilation, especially in confined areas. Gloves. Safety glasses. Protective clothing.

Handle in accordance with good industrial hygiene and safety practice. Emergency eye wash fountains should be available in the immediate



Chemically resistant materials and fabrics.

Chemical goggles or safety glasses.

Wear chemically resistant protective gloves.

Materials for Protective Clothing: Hand Protection: Eye Protection: Skin and Body Protection:

vicinity of any potential exposure.Respiratory Protection:Not required for normal conditions of use.Environmental Exposure Controls:Ensure adequate ventilation, especially in confined areas.SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

3.1. Information on basic r hysical and chemical r toperties				
Physical State:	Liquid			
Appearance:	Blue clear Liquid			
Odor:	Odorless			
Odor Threshold:	Not available			
pH:	3 - 5			
Evaporation Rate:	Not available			
Melting Point:	Not available			
Freezing Point:	-12 C (10.4 F)			
Boiling Point:	Not available			
Flash Point:	Not available			
Auto-ignition Temperature:	Not available			
Decomposition Temperature:	235 C (455 F)			
Flammability (solid, gas):	Not available			
Lower Flammable Limit:	Not available			
Upper Flammable Limit:	Not available			
Vapor Pressure:	Not available			
Relative Vapor Density at 20C:	Not available			
Specific Gravity	1.216-1.228			
Solubility:	Not available			
Partition Coefficient: N-Octanol/Water:	Not available			
Viscosity:	Not available			
Explosion Properties:	None known			
CECTION 40. CTADILITY AND DEACTIN				

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Stable at ambient temperature and under normal conditions of use.

10.2. Chemical Stability: Stable at standard temperature and pressure.

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

10.4. Conditions to Avoid: Direct sunlight. Extreme temperatures. Ignition sources. Incompatible materials

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Chlorates. Nitrates. Nitrites.

10.6. Hazardous Decomposition Products: Ammonia. Sulfur oxides.

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:	3 - 5			
Serious Eye Damage/Irritation:	Not classified			
ph:	3 - 5			
Respiratory or Skin Sensitization:	Not classified			
Germ Cell Mutagenicity:	Not classified			
Teratogencity:	Not available			
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			

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rate	>90000 mg/kg

Ammonium sulfate (7783-20-2)	
LD50 Oral Rate	2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Ecology - General: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Ecology - Water: Toxic to aquatic life.

Ammonium sulfate (7783-20-2)				
LC50 Fish 1	5.2 (5.2 - 8.2) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])			
EC50 Daphnia	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)			
LC50 Fish 2	32.2 (32.2 - 41.9) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flowthrough])			
Bioaccumulative Pot	tential: Log Pow -5.1 (at 25 C)			

Mobility in Soil: Not available

Other Adverse Effects: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Sewage Disposal Recommendations:

This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Waste Disposal Recommendations:

tions: Place in an appropriate container and dispose of the contaminated material at a licensed site.

SECTION 14: TRANSPORT INFORMATION

14.1.In Accordance with DOTNot regulated for transport14.2.In Accordance with IMDGNot regulated for transport14.3.In Accordance with IATANot regulated for transport

 14.4.
 In Accordance with TDG
 Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Ammonium sulfate (7783-20-2)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

15.2. US State Regulations

If you are located in a state that has an OSH program approved by OSHA, you may be under state jurisdiction

rather than federal jurisdiction and your state may have more stringent requirements than OSHA. You should consult your state regulations to ensure compliance.

15.3. Canadian Regulations

This product is not offered for sale in Canada.

SECTION 16: OTHER INFORMATION

	Aquatic Acute 2		Hazardous to the aquatic environment - Acute Hazard Cat. 2
	H401		Toxic to aquatic life
NFPA Health Hazard:		1 - Exposure could cause minor residual injury eve given.	
NFPA Fire Hazard: NFPA Reactivity:		0 - Materials that will no	
NFPA K		0- Normally stable, even conditions, and area not	

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