



CHEMICAL & FERTILIZER, LLC

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Spray Aide®

Chemical Name: Alkylaryl polyoxyethylene phosphate ester

Common Name, Synonym: Phosphate Ester

Material Uses: Agricultural Acidifier

Manufacturer/Manufactured For: Miller Chemical and Fertilizer, LLC

Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

Section 2 – Hazard Identification

2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)

Eye Irritation (Category 2A)

2.2 Label elements

GHS Labeling Elements



Pictogram:

Signal Word: Warning

Hazard Statements: Causes serious eye irritation.

Precautionary Statements: Wash eyes thoroughly after handling. Wear eye protection/face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Section 3 – Composition/Information of Ingredients

Ingredient Name	CAS Number	%	Classification (GHS-US)
This product has been tested as a whole to determine its hazard – see section 11			

PA Right to Know: This product contains proprietary ingredients

This product contains the following chemicals subject to the reporting requirements of Section 13 Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).

None



Product Name: Spray Aide®

Section 4 – First Aid Measures

Eye Contact: Flush gently and thoroughly for 15 minutes with large amounts of clean water, occasionally lifting upper and lower lids. Seek medical attention if irritation persists

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If redness or rash develops and persists, seek medical attention. Wash or clean contaminated clothing and shoes before wearing again

Ingestion: DO NOT INDUCE VOMITING. Call a physician immediately.

Inhalation: If respiratory symptoms develop, remove person to fresh air immediately. Begin artificial respiration or CPR (cardiopulmonary resuscitation) if required and seek medical attention as appropriate

Notes to Physician: None Known

Section 5 – Fire-Fighting Measures

Flash Point: Over 100°C (PMCC)

Autoignition Temperature: Not applicable

LEL/UEL: Not applicable

Extinguishing Media: Foam, Dry chemical, carbon dioxide (CO₂), water spray, or sand/earth.

Hazardous Decomposition Products: Oxides of carbon

Fire-Fighting Instructions: Keep unauthorized personnel away. Wear full protective clothing and self-contained breathing apparatus. Stay upwind. Stop spill/release if it can be done without risk. Apply water spray to knock down and absorb fumes and vapors and cool affected containers. Control runoff waters. Ventilate closed spaces before entering. Always stay away from the ends of tanks

Fire-Fighting Equipment: Full protective clothing and self-contained breathing apparatus

Unusual Fire or Explosion Hazards: Evacuate people downwind from fire and control run-off water.

Section 6 – Accidental Release Measures

Spill /Leak Procedures: ELIMINATE ALL SOURCES OF IGNITION. DIKE OR IMPOUND TO KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES. ABSORB SPILL WITH INERT MATERIAL. SHOVEL INTO WASTE CONTAINERS.

Flush area with water, contain and remove cleanup liquid. Small amounts of spilled liquid may be absorbed using appropriate absorbent material. As conditions warrant, notify proper authorities, downstream sewer and water treatment operations, and other downstream users about potentially contaminated water

Section 7 – Handling and Storage

Handling Precautions: It is advisable to wash promptly if skin becomes contaminated; before eating, drinking, using tobacco, or chewing gum; before using toilet facilities; and at the end of the work shift before leaving the worksite

Storage Requirements: Store at temperatures between 41°F and 120°F, in well-ventilated areas away from heat or flame.



Product Name: Spray Aide®

Regulatory Requirements: None Known

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:

Ventilation: None required under normal conditions.

Administrative Controls:

Respiratory Protection: A NIOSA/MSHA approved respirator should be worn when dusting/misting occurs

Protective Clothing/Equipment: Chemical protective goggles should be used where splashing may occur. Wear rubber or neoprene gloves where splashing may occur. If irritation occurs, impervious clothing and gloves should be worn.

Safety Stations: Not Known

Contaminated Equipment: Not Known

Comments: None

Section 9 – Physical and Chemical Properties

Appearance:	Clear/yellowish liquid
Odor:	Mild
pH (aqueous approx. 5% in DW):	2.000 to 2.600
Boiling point/Boiling range:	≥ 212°F (100°C)
Freeze Point:	Not Determined
Flash Point:	≥ 250°F (PMCC)
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Solubility in Water:	Soluble
Density:	9.13 – 9.43 lbs/gal @ 68°F (20°C)
Specific Gravity (H₂O=1 @ 4°C):	1.09 – 1.13 @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: None Known

Chemical Incompatibilities: Strong Oxidizers.

Conditions to Avoid: None known.

Hazardous Decomposition Products: Oxides of carbon under fire conditions.



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Section 11- Toxicological Information

Toxicity Data:*

Acute Eye Irritation: Moderately irritating

Skin Sensitization: Data not available

Acute Dermal Effects: (rats) LD₅₀ > 5050 mg/kg

Carcinogenicity: Data not available

Acute Oral Effects: (rats) LD₅₀ 4684 mg/kg

Mutagenicity: Data not available

Acute Inhalation Effects: (rats) LC₅₀ > 2.19 mg/L (4hr)

Teratogenicity: Data not available

*See NIOSH, RTECS on listed ingredients for additional toxicity data.

Section 12 – Ecological Information

Ecotoxicity: This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.

Aquatic Toxicity: Not Known

Environmental Fate: Not known

Section 13 – Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:



Product Name: Spray Aide®

Section 14 – Transport Information *continued*

AIR TRANSPORTATION

PROPER SHIPPING NAME:

PACKING GROUP:

HAZARD CLASS:

LABEL/PLACARD REQUIRED:

UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES:

This product is not considered a hazard

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable

SARA Title III (EPCRA): Not applicable

RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

TSCA Inventory Status: Listed

TSCA, 40 CFR 710: Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

Section 16 – Other Information

Preparation Date: 02 October 2013

Prepared By: Miller Chemical Regulatory Compliance Officer

Revision Date: 05-11-2015

Revision Notes: GHS Compliance

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET (“SDS”) RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE “PRODUCT”). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS SDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. 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 MILLER CHEMICAL AND FERTILIZER, LLC. NOR ITS MARKETING AFFILIATES (EACH, A “SELLER”) ASSUME ANY LEGAL RESPONSIBILITY FOR THE USE OR RELIANCE UPON SAME.