

SDS For Magruder 250411

| SECTION 1 | PRODUCT AND COMPANY IDENTIFICATION |
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| Trade Name: | DAP-DiammoniumPhosphate |
| ChemicalName: | DibasicAmmoniumPhosphate |
| CAS Number: | 7783- 28- 0 |
| Chemical Family: | AmmoniumPhosphates—InorganicSalt |
| Synonyms: | AmmoniumPhosphate Dibasic Secondary Ammonium Phosphate Diammonium Hydrogen Phosphate Fertilizer Grade Ammonium Phosphate DAP18-46-0 |
| PrimaryUse: | Cropnutrient |
| Company Information: | The Mosaic Company 101 East Kennedy Blvd, Ste 2500 Tampa, FL 33602 www.mosaicco.com (800)918-8270 or (813) 775-4200 8 AM to 5 PM Eastern Time USA |
| Emergency Telephone: | EMERGENCY OVERVIEW 24 Hour Emergency Telephone Number: For Chemical Emergencies: Spill, Leak, Fire or Accident Call CHEMTREC North America: (800) 424-9300(reference CCN201871) Others: (703) 527-3887 (collect) |

| SECTION 2 | HAZARD IDENTIFICATION | |
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| GHS Classification: | Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3 Signal Word: WARNING | Hazard Statement H303 Hazard Statement H315 Hazard Statement H320 Hazard Statement H335 |
|  | Hazard Statement(s) H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: Maycause respiratory irritation | |
| Label Elements: | | |
| Prevention: | P264: Washhandsthoroughly after handling. P280: Wear protective gloves P261: Avoid breathing dust P271: Use only outdoors or in a well-ventilated area. | |
| Response: | P302+ P352 P321 | IF ON SKIN:Wash with plenty of water. |
| | P332+ P313 P362+ | Specific Treatment, see supplemental first aid information. |
| | P364 | If skin irritation occurs:Get medical advice/attention. |
| | P305+P351+ P338 | Take off contaminated clothing and wash it before reused. |
| | P337+ P313 | 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 advice/attention. |

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| | P304+ P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | P312 | Call a POISON CENTER. |
| Storage: | Not applicable | Not applicable |
| Disposal: | P501 | Disposal of content/containers to be in accordance with local/regional/national regulations. |

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| SECTION 3 | COMPOSITION INFORMATION ON INGREDIENTS | | | |
| Formula: | (NH ₄) ₂ HPO ₄ | | | |
| Composition: | Dibasic Ammonium Phosphate | CAS 7783-28-0 | 70-90% | Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE 3 (Lungs, Inhalation) |
| | Ammonium Sulfate | CAS 7783-20-2 | 5.5-7.5% | |

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| SECTION 4 | FIRST AID MEASURES | | |
| First Aid Procedures: | Eyes: | Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention. | |
| | Skin: | Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention. | |
| | Inhaled: | If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. | |
| | Ingestion: | If large amounts are swallowed, seek emergency medical attention. If possible, do not leave victim unattended and observe closely for adequacy of breathing. | |
| Note to Physician: | If person has been exposed to concentrated decomposition products, treat symptomatically and watch for delayed symptoms of pulmonary edema. | | |

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| SECTION 5 | FIRE FIGHTING MEASURES | |
| Extinguishing Media: | Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff. Prevent firefighter water from entering the environment. Small fires: Water spray, foam, dry chemical or CO ₂ Large fires: Water spray, fog or foam | |
| Protection of Firefighters: | Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials. | |

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| SECTION 6 | ACCIDENTAL RELEASE MEASURES | |
| Response Techniques: | Stay upwind and away from spill (dust hazard). Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies as may be required (see Section 15). Minimize dust generation. Sweep up and package appropriately for disposal. | |

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| SECTION 7 | HANDLING AND STORAGE |
| Handling: | The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use good personal hygiene practices. |
| Storage: | Use and store this material in dry, well-ventilated areas. Store only in approved containers. Keep container(s) tightly closed. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Material may absorb moisture from the air. |

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| SECTION 8 | EXPOSURE CONTROLS / PERSONAL PROTECTION | |
| Engineering Controls: | Use process enclosure, general dilution ventilation or local exhaust systems where necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations. | |
| Personal Protective Equipment(PPE): | Eye/Face: | Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. |
| | Skin: | The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption. |
| | Respiratory: | A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator. |
| | Other: | A source of clean water should be available in the work area for flushing eyes and skin. |
| General Hygiene Considerations: | Wash thoroughly after handling Use adequate ventilation | |
| Exposure Guidelines: | OSHA Permissible Exposure Limits (PEL): | Particulates Not Otherwise Regulated: 5 mg/m ³ TWA (respirable); 15 mg/m ³ TWA (total) Ammonia: 50 ppm (35 mg/m ³) TWA |
| | ACGIH Threshold Limit Value (TLV): | Particulates Not Otherwise Specified: 3 mg/m ³ TWA (respirable); 10 mg/m ³ TWA (inhalable) Ammonia: 25 ppm (18 mg/m ³) TWA; 35 ppm (27 mg/m ³) STEL |

| SECTION 9 | | PHYSICAL AND CHEMICAL PROPERTIES | |
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| Note: Unless otherwise stated, values in this section are determined at 20°C (68°F) and 760 mm Hg (1 atm). | | | |
| Appearance: | Gray, tan, brown or black granules | Vapor Pressure (mm Hg): | Not applicable |
| Odor: | Slight ammonia odor | Vapor Density (air=1): | Not applicable |
| Odor Threshold: | No data available | Specific Gravity or Relative Density: | Not applicable |
| Physical state: | Solid 7.0 –8.0 in a 1% solution | Bulk Density: | Loose 56 -61 lbs/ft3 (895-960 kg/m3) 80% -95% |
| pH: | Not applicable | Solubility in Water: | No data available |
| Melting Point/ Freezing Point: | Not applicable | Partition coefficient: | Not applicable |
| Boiling Point: | Not applicable No data | Auto-Ignition Temperature: | 310°F (155°C) |
| Flash Point: | available | Decomposition Temperature: | No data available |
| Evaporation Rate: | Not applicable | Viscosity: | Not applicable |
| Flammability: | | Volatility: | |
| Upper/lower Flammability or explosive limits | | | |

| SECTION 10 | | STABILITY AND REACTIVITY | |
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| Chemical Stability: | Stable under normal conditions of storage and handling. Decomposes at 310°F (155°C). | | |
| Conditions to Avoid: | Extreme temperatures | | |
| Incompatible Materials: | Avoid contact with alkaline materials | | |
| Hazardous Decomposition Products: | If heated to the point of decomposition, oxides of phosphorus, oxides of nitrogen and ammonia (NH3) may be released. | | |
| Corrosiveness: | May be corrosive to iron and mild steels, aluminum, zinc and copper | | |
| Hazardous Polymerization: | Will not occur | | |

| SECTION 11 | | TOXICOLOGICAL INFORMATION | |
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| Substance: | Diammonium Phosphate | | |
| Acute Oral Toxicity: | LD50(rat, oral) > 2000 mg/kg | | |
| Acute Inhalation Toxicity: | No data available | | |
| Acute Dermal Toxicity: | LD50(rat, dermal) > 5000 mg/kg | | |
| Mutagenesis: | No data available | Target Organ | STOT SE Cat 3; may cause respiratory irritation. |
| Developmental Toxicity: | No data available | Carcinogenicity | The ingredients of this product are not classified as carcinogenic by NTP (National Toxicology Program), IARC, or OSHA |

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| SECTION 12 | ECOLOGICAL INFORMATION |
| Ecotoxicology: | May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream. Fish 96 hour LC50, OECD Guidelines 203 (rainbow trout): >86mg/L. |

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| SECTION 13 | DISPOSAL CONSIDERATIONS |
| | Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. |

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| SECTION 14 | TRANSPORT INFO |
| Regulatory Status: | Not regulated |
| Identification Number: | HTS 3105.30.00 |
| Hazard Class: | Not applicable |
| Proper Shipping Name | Not applicable |
| Packing Group | Not applicable |
| DOT Emergency Response Guide Number: | Not applicable |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Not applicable |
| MARPOL Annex V: | Non-HME |
| IMO/IMDG: | Not applicable |

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| SECTION 15 | REGULATORY INFORMATION | | | | |
| CERCLA: | Not listed | | | | |
| RCRA 261.33: | Not listed | | | | |
| SARA TITLE III: (Exemptions at 40 CFR, Part 370 may apply for agricultural use, or for quantities of less than 10,000 pounds on-site.) | Section 302/304: Not listed | RQ: No | TPQ: No | | |
| | Section 311/312: | | | | |
| | Acute: Yes | Chronic: No | Fire: No | Pressure: No | Reactivity: No |
| | Section 313: Not listed | | | | |
| NTP, IARC, OSHA: | This material has not been identified as a carcinogen by NTP, IARC, or OSHA. | | | | |
| Canada DSL and NDSL: | DSL: Yes NDSL: Not listed | | | | |
| TSCA: | Listed on the TSCA Inventory | | | | |

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| CA Proposition 65: (Health & Safety Code Section 25249.5) |  WARNING: Cancer and Reproductive Harm –www.P65Warnings.ca.gov |
| W HMIS: | WHMIS 2015 This SDS has been prepared according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR. |
| REACH Registration | #01-2119490974-22-0074 |

| SECTION 16 | OTHER INFORMATION |
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| Preparation: | The preparation of this SDS was in accordance with ANSI Z400.1-2010. |
| Revision Date: | March 24, 2020 |
| Sections Revised: | 1 |
| SDS Number: | MOS 100011 |
| References: | Globally Harmonized System of Classification and Labelling of Chemicals (GHS) –4th Edition 2011 OSHA Hazard Communication Standard, 2012 MARPOL Annex V; The Fertilizer Institute (TFI), 2003; TOXNET |

Other Hazard Classifications:

| NFPA HAZARD CLASS | | HMIS HAZARD CLASS | |
|-------------------|------|-------------------|-----------|
| Health: | 1 | Health: | 1 |
| Flammability: | 0 | Flammability: | 0 |
| Instability: | 0 | Physical Hazard: | 0 |
| Special Hazard: | None | PPE: | Section 8 |

| WHMIS 2015 (HPR) HAZARD CLASS | |
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| Signal Word | Warning |
| Symbol |  |
| Classification | Acute Toxicity Oral Category 5 Skin Irritant Category 2 Eye Irritant Category 2B STOT SE Category 3 |
| Hazard Statements | H303: May be harmful if swallowed H315: Causes skin irritation H320: Causes eye irritation H335: May cause respiratory irritation |

