



Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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| Product Name | Pro Bloom |
| Product Type/Description | Solid, granules |
| Other means of Identification | Mixture of dry fertilizer with micronutrients |
| Emergency Number | 1.844.333.1818 |
| Manufacturer | Athena Products Inc 3811 Wacker Drive Mira Loma, CA 91752 |
| Telephone | 1.844.333.1818 |

Section 2 – HAZARD IDENTIFICATION

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| GHS classification | Acute Toxicity (Oral) – Category 4 Eye Irritation – Category 2A |
| Hazard Statements | Not classified as hazardous |
| Pictogram: None / Signal Word |   Warning |

PRECAUTIONARY STATEMENTS:

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| General | H302 – Harmful if swallowed H318 – Causes serious eye damage |
| Prevention | P280 – Wear protective gloves / protective clothing / eye protection / face protection P270 – Do not eat, drink or smoke when using this product P264 – Wash face, hands, and any exposed skin thoroughly after handling |
| Response | P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 – Immediately call POISON CENTER or doctor / physician P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. P330 – Rinse Mouth |
| Storage | P410: Protect from sunlight |
| Disposal | P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations. |

Section 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

| <u>Components:</u> | <u>CAS-No:</u> | <u>% Concentration by Weight</u> |
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| Potassium Sulfate | 7778-80-5 | Proprietary |
| Monopotassium Phosphate | 7778-77-0 | Proprietary |
| Magnesium Sulfate | 10034-99-8 | Proprietary |
| Diethylenetriaminopentaacetic acid, ferric disodium salt | 12389-75-2 | Proprietary |

Section 4: FIRST-AID MEASURES

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| Inhalation | Remove victim from exposure to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. DO NOT USE MOUTH TO MOUTH METHOD. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Seek medical attention immediately. |
| Skin Contact | Remove contaminated clothing. Wash with soap and water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse. If irritation persists contact physician. |
| Eye Contact | Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing, if eye irritation persists, get medical attention. |
| Swallowed | Rinse mouth and get medical attention. Never give anything by mouth to an unconscious person. Toxic if swallowed. |
| General Information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Treat symptomatically based on judgement of doctor and individual reactions of patient. |
| Medical Conditions Aggravated by Exposure | N/A |

Section 5: FIRE-FIGHTING MEASURES

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| General measures | Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. |
| Flammability Conditions | Non-combustible solid. But substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. |
| Extinguishing Media | In case of fire, use flooding quantities of water for extinction. DO NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand. |
| Fire and explosion hazard | Can cause explosions in contact with combustible dust or vapors, occasionally explosive by shock or friction. Sensitive to mechanical impact. |
| Hazardous products of combustion | When involved in a fire, this product may generate oxides of nitrogen and metal oxides. |
| Special Firefighting instructions | DO NOT allow fire fighting water to reach waterways, drains, or sewers. Store firefighting water for treatment |
| Personnel protective equipment | Firefighters should wear a positive-pressure self-container breathing apparatus (SCBA) and protective fire fighting clothing |

Section 6: ACCIDENTAL RELEASE MEASURES

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| General Response Procedure | Avoid accidents, clean up immediately. Slipper when spilled. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Avoid contact with skin, eyes, and inhalation of vapors. |
| Clean up Procedures <i>Large Spills</i> | Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| <i>Small Spills</i> | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Disposed of via a licensed |

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| | waste disposal contractor. |
| Containment | Stop leak if safe to do so, isolate the danger area |
| Decontamination | Residual traces can be wiped away |
| Environmental precautions | Avoid dispersal of spilled 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) |
| Evacuation Criteria | Evacuate all unnecessary personnel |
| Personnel Precautionary Measures | Personnel involved in the clean up should wear full protective clothing as listed in section 8 |

Section 7: HANDLING AND STORAGE

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| Precautions for safe handling | Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, and spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash your hands immediately after handling this product, and once again before leaving the workplace. |
| Conditions for safe storage, including any incompatibilities | <u>Storage Conditions:</u> Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up. |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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|---|--|---------------------------|----------------|---------------------------|------|-----|----------------|--------|-------------------|------------------|------------|------------------------|-----------------------|
| General | <table border="0"> <tr> <td>Exposure Pattern</td> <td>DNEL (Workers)</td> <td>DNEL (General Population)</td> </tr> <tr> <td>Oral</td> <td>N/A</td> <td>8.3 mg/kg bw/d</td> </tr> <tr> <td>Dermal</td> <td>13.9 mg/kg bw/day</td> <td>8.3 mg/kg bw/day</td> </tr> <tr> <td>Inhalation</td> <td>24.5 mg/m³</td> <td>6.3 mg/m³</td> </tr> </table> <p>As an acute toxicity hazard leading to Classification and Labeling of the substance has not been identified, the long term DNEL is considered sufficient to ensure that effects from acute exposure to the substance do not occur (in accordance with ECHA guidance on information requirements and chemical safety assessment: Chapter R.8: Characterization of dose [concentration] -response for human health, May 2008 and Part B: Hazard Assessment, Draft new chapter B.8 Scope of Exposure Assessment, March 2010). PNEC (freshwater): 0.0011 mg/L for free Ammonia.</p> | Exposure Pattern | DNEL (Workers) | DNEL (General Population) | Oral | N/A | 8.3 mg/kg bw/d | Dermal | 13.9 mg/kg bw/day | 8.3 mg/kg bw/day | Inhalation | 24.5 mg/m ³ | 6.3 mg/m ³ |
| Exposure Pattern | DNEL (Workers) | DNEL (General Population) | | | | | | | | | | | |
| Oral | N/A | 8.3 mg/kg bw/d | | | | | | | | | | | |
| Dermal | 13.9 mg/kg bw/day | 8.3 mg/kg bw/day | | | | | | | | | | | |
| Inhalation | 24.5 mg/m ³ | 6.3 mg/m ³ | | | | | | | | | | | |
| Exposure Limits | No Data Available | | | | | | | | | | | | |
| Biological Limits | No information available on biological limit values for this product. | | | | | | | | | | | | |
| Engineering Measures | Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled. | | | | | | | | | | | | |
| Personal protective equipment (PPE) <i>Eye/face protection</i> | Wear safety glasses with side shields (or goggles) and a full-face shield where splashing or dust is possible (AS1336/1337). | | | | | | | | | | | | |

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| <i>Skin protection</i> | Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Long-sleeved protective clothing and safety footwear (AS3765/2210). |
| <i>Hand protection</i> | Wear appropriate chemical resistant impervious gloves (AS2161). |
| <i>Respiratory protection</i> | If conditions exist where mist/dust/vapours may be generated and engineering controls are inadequate, a NIOSH/MSHA approved mist respirator should be worn (AS1715/1716). |
| <i>Thermal hazards</i> | Wear appropriate thermal protective clothing, when necessary. |
| Work Hygienic Practices | Ensure eyewash and safety shower facilities are available. Do not eat, drink or smoke in work areas. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory, and at the end of the work period. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before reuse. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES:

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| Appearance | Tan powder |
| Odor | N/A |
| Odor threshold | N/A |
| pH | 4.5-5 (5% Solution in water) |
| Melting point | N/A |
| Freezing point | N/A |
| Initial boiling point and boiling range | >500 °C |
| Flash point | N/A |
| Evaporation rate | N/A |
| Flammability (solid, gas) | N/A |
| Upper/lower flammability or explosive limits | |
| <i>Flammability limit - lower (%)</i> | N/A |
| <i>Flammability limit - upper (%)</i> | N/A |
| <i>Explosive limit - lower (%)</i> | N/A |
| <i>Explosive limit - upper (%)</i> | N/A |
| Vapor density | N/A |
| Bulk density | 1100 kg/m ³ |
| Density | 2.05 g/cm ³ (20°C) |
| Specific gravity | N/A |
| Solubility(ies) | Complete |
| Partition coefficient (n-octanol/water) | N/A |
| Auto-ignition temperature | N/A |
| Potential for Dust Explosion | N/A |
| Decomposition temperature | >500 °C |
| Viscosity | N/A |

Section 10: STABILITY AND REACTIVITY

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| Reactivity | Avoid interaction with heat (flames), oxidizers or acids. |
| Chemical stability | Material is stable under normal conditions |
| Possibility of hazardous reactions | Hazardous polymerization will not occur |
| Conditions to avoid | Direct sunlight. Extremely high or low temperatures. Sources of ignition. |

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| | Incompatible materials. Avoid contamination by any source including metals, dust and organic materials. |
| Incompatible materials | This product is not compatible with lead or mercury or their alloys. These materials of construction should not be used in handling systems or storage containers for this product. |
| Hazardous Decomposition Products | Under normal conditions, hazardous decomposition should not be produced. |

Section 11: TOXICOLOGICAL INFORMATION

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| General Information | ORAL: RAT 8050 mg/kg estimated |
| Eye irritant | Causes serious eye irritation pH4 (5%) |
| Ingestion | Harmful if swallowed. |
| Inhalation | Prolonged inhalation may be harmful. May cause damage to organs through prolonged repeated exposure. (decomposition product) may cause edema of the lungs, symptoms may be delayed up to 48 hours. |
| Skin corrosion/irritation | Can cause itching, redness, and pain. |
| Carcinogen Category | Not listed in NTP, IARC or by OSHA |

Section 12: ECOLOGICAL INFORMATION

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| Ecotoxicity | Not determined. |
| Persistence and degradability | Not determined. |
| Mobility | Not determined. |
| Environmental Fate | Not determined. |
| Bioaccumulation potential | This product is not bioaccumulative. |
| Environmental impact | No data available |

Section 13: DISPOSAL CONSIDERATIONS

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| Disposal instructions | Consult federal, state and local regulations for disposal requirements. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

Section 14: TRANSPORT INFORMATION

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| US DOT | Not regulated as hazardous material |
| IMGD | Not regulated as hazardous material |
| IATA | Not regulated as hazardous material |
| RID/ADR | Not regulated as hazardous material |
| Canadian TDG | Not regulated as hazardous material |
| Environmental hazards <i>Marine pollutant</i> | N/A |
| Special precautions | Read safety instructions, SDS and emergency procedures before handling. |

Section 15: REGULATORY INFORMATION

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| 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. |
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| Proposition 65 (CA) | Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. | | | | | | | | | | |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | Not regulated | | | | | | | | | | |
| CERCLA Hazardous Substance List (40 CFR 302.4) | Not applicable | | | | | | | | | | |
| SARA 304 Emergency release notification | Not regulated | | | | | | | | | | |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | Not listed | | | | | | | | | | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) <i>Hazard categories</i> | <table> <tr> <td>Immediate Hazard</td> <td>No</td> </tr> <tr> <td>Delayed Hazard</td> <td>No</td> </tr> <tr> <td>Fire Hazard</td> <td>No</td> </tr> <tr> <td>Pressure Hazard</td> <td>No</td> </tr> <tr> <td>Reactivity Hazard</td> <td>No</td> </tr> </table> | Immediate Hazard | No | Delayed Hazard | No | Fire Hazard | No | Pressure Hazard | No | Reactivity Hazard | No |
| Immediate Hazard | No | | | | | | | | | | |
| Delayed Hazard | No | | | | | | | | | | |
| Fire Hazard | No | | | | | | | | | | |
| Pressure Hazard | No | | | | | | | | | | |
| Reactivity Hazard | No | | | | | | | | | | |
| SARA 302 Extremely hazardous substance | Not listed | | | | | | | | | | |
| SARA 311/312 Hazardous chemical | Immediate (acute) | | | | | | | | | | |
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Section 16: OTHER INFORMATION

To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither **Athena Products** nor any of its affiliates make any warranty, expressed or implied, or accept any liability in connection with the information or its use. The information is for use by technically skilled persons at their own discretions and risk. This is not a license or a patent. The user alone must finally determine suitability or any information or materials for any contemplated use, the manner or use and whether any patents are infringed.



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