

BLOOMIT

Material Safety Data Sheet

Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Source: International Ag Labs, 800 W. Lake Ave., PO Box 788, Fairmont, Minnesota 56031
Product Name: Bloomit CAS #
Ingredients: Phosphoric Acid 75% 7664-38-2
Ammonium Hydroxide 7664-41-7
Bloomit is a liquid foliar spray designed to feed plants through the leaf.
Emergency Phone 507-235-6909

Section 2 HAZARDOUS IDENTIFICATION

Potential Acute Health Effects:

Ingestion: Very hazardous in case of ingestion. Liquid or spray mist may produce tissue damage particularly on mucous membranes of mouth. May cause irritation or the gastrointestinal tract to include nausea, vomiting and diarrhea. Can cause corrosive burns to the esophagus and stomach.

Eye Contact: Very hazardous in case of eye contact (irritant, corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes. Inflammation of the eye is characterized by redness, watering, and itching.

Skin Absorption: Very hazardous in case of skin contact (corrosive, permeator).

Skin Contact: Very hazardous in case of skin contact (irritant). Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation: Slightly hazardous in case of inhalation (lung sensitizer). Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Spray mist may produce tissue damage particularly on mucous membranes of respiratory tract.

Effects of Overdose: Severe over-exposure can result in death.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
The substance may be toxic to blood, liver, skin, eyes, bone marrow. Repeated or or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 3 FIRST AID MEASURES

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical

attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Section 4

FIRE FIGHTING AND EXPLOSIVE MEASURES

Flammability of the Product: Non-flammable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances:

Of metals.

Explosion Hazards in Presence of Various Substances:

Non-explosive in presence of open flames and sparks, of shocks.

Fire Fighting Media and Instructions:

The mixture will not burn but escaping gas can burn in the range of 16-25% NH₃ in air. Wear full protective clothing and self-contained breathing apparatus in the pressure demand mode.

Extinguishing Media: Water fog or spray for escaping ammonia gas.

Special Remarks on Fire Hazards:

Reacts with metals to liberate flammable hydrogen gas. Formation of flammable gases with aldehydes, cyanides, mercaptins, and sulfides.

Special Remarks on Explosion Hazards:

Mixtures with nitromethane are explosive. (Phosphoric Acid)

Section 5

ACCIDENTAL RELEASE MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill: Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. **DO NOT** let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

Suggested Local Action: Releases will liberate irritating vapors. Spilled liquids should be contained and not washed into sewers or ground water. Prevent large quantities from contact with vegetation or waterways. Ammonium hydroxide is a regulated material and reporting of any release may be required. Any release of this material during the course of loading, transporting, unloading or temporary storage must be reported to the U.S. DOT as required by 49 CFR 171.15 and 171.16.

Section 6 HANDLING AND STORAGE

Precautions: Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, combustible materials, metals alkalis. May corrode metallic surfaces.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Store in original packaging as approved by manufacturer.

Section 7 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Rubber Gloves. Boots.

Personal Protection In Case Of A Large Spill:
Chemical splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 8 PHYSICAL AND CHEMICAL PROPERTIES

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| Boiling Point: | Unknown | Solubility in Water: | Complete |
| Density: | 1.16 | Vapor Pressure, mm Hg: | Not applicable |
| Flashpoint: | N/A | Reaction with Water: | None |
| pH: | <3.0 | Appearance: | Clear tan liquid |

Section 9 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable. Heating above ambient temperature will cause the vapor pressure of ammonia to increase rapidly.

Incompatibility with various substances: Reactive with oxidizing agents, combustible materials, metals, alkalis.

Corrosivity: Extremely corrosive in presence of copper, of stainless steel(304), of stainless steel(316). Highly corrosive in presence of aluminum. Minor corrosive effect on bronze. Severe corrosive effect on brass. Corrosive to ferrous metals and alloys. Non-corrosive in presence of glass.

Hazardous Decomposition Products: Decomposes on heating emitting toxic fumes, including those oxides of nitrogen.

Polymerization: Will not occur.

Section 10 TOXICOLOGY INFORMATION

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Chronic Effects on Humans: May cause damage to the following organs: blood, liver, skin, eyes, bone marrow.

Other Toxic Effects on Humans: Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive), or ingestion.

Section 11 ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Products of Biodegradation: Possible hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:

Environmental Fate:

The products of degradation are less toxic than the product itself. Avoid contaminating waterways, drains and sewers. Harmful to aquatic life in very low concentrations.

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| Section 12 | DISPOSAL CONSIDERATIONS |
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Waste Disposal Procedures: Dispose according to federal, provincial/state and local environmental regulations.

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| Section 13 | TRANSPORT INFORMATION |
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| Shipping Name: | Bloomit | | |
| Hazard Class: | None | C.A.S. Number: | N/A |
| Reportable Quantity (RQ): | None | D.O.T. Number: | None |
| Labels Required: | None | Haz Waste No: | None |
| Placard: | None | EPA Reqlst No: | None |

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