

Material Safety Data Sheet



Date Reviewed and Issued: October 8, 2010

MSDS # 1005

Section 1. Identification: Sunshine Advanced

Product Names:

- Sunshine Advanced Plant Fuel Max Flowers 1-4-5

Manufacturer/Supplier:

Sun Gro Horticulture Distribution, Inc.
15831 NE 8th St., Suite 100
Bellevue, WA 98008

For more information call:

Western Region 1-888-797-7328
Central Region 1-888-982-4500
Eastern Region 1-888-896-1222

For more information: www.sungro.com

Product Uses: Fertilizer

Section 2. Hazardous Ingredient & Composition

Component	CAS#	Component	CAS#
Potassium Nitrate	7757-79-1	Copper EDTA	14025-15-1
Ammonium Phosphate	7722-76-1	Iron EDTA	15708-41-5
Magnesium Sulfate	7487-88-9	Iron EDDHA	16455-61-1
Potassium Phosphate	7778-77-0	Manganese EDTA	15375-84-5
Boric Acid	10043-53-3	Zinc EDTA	14025-21-9
		Sodium Molybdate	7631-95-0

Section 3. Physical/Chemical Characteristics

Physical State: Liquid

Boiling Point: 312 deg F

Appearance and Color: Pale Green

Vapor Pressure: Not applicable

Odor: Mild

Solubility in Water: Not applicable

pH: Not applicable

Melting point: Not applicable

Density: 10.345 lb per gallon (kg/l)

Evaporation rate: NA

Specific gravity: Not applicable

Section 4. Hazard Identification

Emergency overview: when heated to decomposition this material may emit toxic gases of nitrous oxide and ammonia. Irritable to eyes, nose, or mouth.

Potential health effects:

- Inhalation:** In case of inhalation of fumes from overheating or combustion, move to fresh air. If needed, seek medical attention.
- Eye contact** In case of dust or granule in the eyes, flush thoroughly with running water. Seek medical attention if irritation persists.
- Skin Contact:** Wash thoroughly with soap and water.
- Ingestion:** Seek medical attention
- Medical Conditions aggravated by Exposure:** Inhalation of dust may aggravate asthma in susceptible individuals. Prolonged skin contact may cause mild skin irritation.

Section 5. First Aid

- Inhalation:** In case of inhalation of fumes from overheating or combustion, move to fresh air. If needed, seek medical attention.
- Eye contact:** In case of dust or granule in the eyes, flush thoroughly with running water.
- Skin Contact:** Wash thoroughly with soap and water.
- Ingestion:** Seek medical attention

Section 6. Fire Fighting Measures

- Flashpoint and Method:** Decomposes on heating
- Extinguishing Media:** Dry chemical, water fog, foam, CO₂
- Explosion Hazard:** High airborne dust concentrations have the potential for explosion.
- Fire Fighting Procedures:** Evacuate area. Flood with water to cool containers.
- Fire Fighting Equipment:** Wear self-contained breathing apparatus to fight large fires.
- Hazardous Decomposition Products:** In fire, toxic metal oxides may be produced.
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Section 7. Accidental Release

Sweep up spills. Use good housekeeping practices. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.

Section 8. Handling and Storage

Handling: See label. Wash hands with soap and water after handling product

Storage: Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs, as well as household cleaning products.

Containers: Avoid container breakage; keep away from sparks, flames and excessive heat.

Carcinogenicity: None known

Effects of Exposure: Avoid inhalation or contact with skin, eyes, or clothing.

Ecological Information: Keep out of lakes, streams or ponds.

Other Concerns: Keep out of reach of children and pets.

Section 9. Exposure Controls and Personal Protection

Engineering Controls: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact. Running water should be available in case material gets in eyes.

Respiratory Protection: If airborne dust levels are high or product does not remain intact, use a combination of engineering controls, such as ventilation, and personal protection, such as an approved respirator, to reduce exposures to acceptable levels.

Eyes and Face Protection: None required for product use. High airborne dust levels may be irritating and use of chemical goggles is suggested.

Skin: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.

Other Protective Clothing or Equipment: Normal work clothing

Work/Hygienic Practices: Open wounds should be kept clean and suitably protected.

Section 10. Stability and Reactivity

Chemical Stability:	Stable
Hazardous polymerization:	No
Conditions to Avoid:	High heating
Hazardous Decomposition Products:	Nitrous oxides, ammonia and toxic metal oxides may be produced
Incompatible Materials:	Strong Alkaline agents.

Section 11. Toxicological Information

Acute and Chronic Toxicity:	No data
Carcinogenicity, Teratogenicity, Mutagenicity, Reproductive Effects:	None known
General Comments	Possible nausea, vomiting, diarrhea, skin or eye irritation. Inhalation of heavy concentrations of manganese-containing dusts over very prolonged periods of exposure (1-3 years) has been reported to cause damage to the central nervous system. Inhalation of dust may aggravate asthma. Eye contact with product may cause irritation, flush eyes with water as soon as possible.

Section 12. Ecological Information

Persistence and Degradability:	Fertilizer granules are soluble in water and biodegradable.
Aquatic Toxicity:	Large amounts of product released to water systems will be harmful to aquatic plant and animal life.

Section 13. Disposal Consideration

Disposal must be in accordance with Federal, State, and Local regulations. Uncontaminated product may be reused as fertilizer.

Section 14. Transport Information

Department of Transportation (DOT): Not DOT regulated.

Section 15. Regulatory Information

Contact local authorities for proper disposal of large quantities of unused product.

Section 16. Other Information

NFPA Codes: Health: 2, Fire: 0, Reactivity: 0.

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