



Material Safety Data Sheet

Section 1. Identification: Hydro-Gro

Product Name: Hydro-Gro 4-14-34

Manufacturer:

CropKing Inc.
134 West Drive
Lodi, Oh 44254

Contact Information:

1-330-302-4203
1-800-321-5656
1-330-302-4204 Fax
www.cropking.com

Product use: Hydroponic Fertilizer

Date: Aug 26, 2009

Section 2. Hazardous Ingredient & Composition

Component	CAS#
Potassium Nitrate	7757-79-1
Mono Potassium Phosphate	7778-77-0
Potassium Sulfate	7778-77-5
Magnesium Sulfate	7487-88-9
Chelated Iron DTPA	12389-75-2
Manganese Sulfate	10034-96-5
Zinc Sulphate	7733-02-0
Copper Sulphate	7758-98-7
Solubor	12280-03-4
Sodium Molybdate	7631-95-0

Section 3. Physical/Chemical Characteristics

Physical State: Solid

Appearance: Granular and powder

Color: Pale yellow

Odor: None

pH: Not Applicable

Density: 50-70 lb/cf

Boiling Point: Not Applicable

Vapor Pressure: Not Applicable

Solubility in Water: 100%

Melting Point: Not Applicable

Evaporation Rate: Not Applicable

Specific Gravity: Not Applicable

Section 4. Hazard Identification

Emergency Overview: Non combustible. When heated to decomposition this material may emit toxic gases of nitrous oxide, sulfur dioxide and magnesium oxide.

Fire fighters should wear full faced, self contained breathing apparatus and impervious clothing.

Potential Health Effects:

Inhalation: In case of inhalation of fumes from overheating or combustion, move to fresh air. Seek medical attention.

Eye Contact: In case of dust or granule in eyes, flush thoroughly with running water. Seek medical attention if irritation persists

Skin Contact: Wash thoroughly with soap and water

Ingestion: Seek immediate medical attention

Medical Conditions Inhalation of dust may aggravate asthma in susceptible individuals.

Aggravated by Exposure: 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. Seek medical attention

Eye Contact: In case of dust or granule in eyes, flush thoroughly with running water.

Skin Contact: Wash thoroughly with soap and water

Ingestion: Seek immediate 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

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

Carcinogenity: 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 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: High Alkaline products

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 into 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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