

## MATERIAL SAFETY DATA SHEET

**SECTION 1. IDENTIFICATION** Date: 05/06

**MANUFACTURER/FORMULATOR:** Gro-Power, Inc.  
15065 Telephone Avenue  
Chino, CA 91710-9614

**PRODUCT NAME:** Gro-Power® Premium Green® 6-18-8 25/HA  
**COMMON NAME:** Organic base and inorganic chemical fertilizer  
**CHEMICAL TYPE:** Inorganic salts / methylene ureas  
**TELEPHONE NO.:** (800) 473-1307

**SECTION 2. INGREDIENTS**

CHEMICALS NAMES & SYNONYMS	CHEMICAL FORMULAS	CAS NO.	LD50	TLV/PEL
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**HAZARDOUS:**

Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	1317-61-9	NONE	10 mg/M <sup>3</sup>
Zinc Oxide	ZnO	1314-13-2	NONE	10 mg/m

**NON-HAZARDOUS:** A non-hazardous blend of di-ammonium phosphate, triple super phosphate, potassium sulfate and humus.

**SECTION 3. PHYSICAL PROPERTIES**

**APPEARANCE:** Granular Light to Dark Gray    **pH:** 5.8 -6.0    **ODOR:** None    **REACTION w/WATER:** None  
**SOLUBILITY:** Moderate    **BOILING PT:** N/A    **MELTING PT:** 240° F Decomposes  
**SPECIFIC GRAVITY:** N/A    **VAPOR PRESSURE:** N/A    **%VOLATILES:** N/A

**SECTION 4. FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Decomposes    **FLAMMABLE LIMITS - UPPER:** N/A    **LOWER:** N/A

**AUTOIGNITION TEMPERATURE:** NONE    **DOT HAZARD CLASS:** NONE

**NFPA RATINGS:** HEALTH: 1    **FLAMMABILITY:** 0    **REACTIVITY:** 0    **OTHER:** 0

**EXTINGUISHING MEDIA:** Use any means suitable for extinguishing surrounding fire, dry chemical, water, sand.

**SPECIAL FIRE FIGHTING PROCEDURES:** Remove ignition source. Minimize breathing of fumes.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** At high temperatures, may decompose and release toxic gases of ammonia, phosphates, and nitrates. Dispersion of fine dust in air may form an explosive mixture.

**SECTION 5. REACTIVITY**

**STABILITY (NORMAL CONDITIONS):** (X) STABLE    ( ) UNSTABLE

**CONDITIONS TO AVOID:**

**HAZARDOUS POLYMERIZATION:** ( ) MAY OCCUR    (X) WILL NOT OCCUR    **CONDITIONS TO AVOID:** N/A

**INCOMPATIBILITY (MATERIALS TO AVOID):** Oxidizers, potassium chlorate, potassium nitrates, potassium nitrates, and ammonium nitrates.

**SECTION 6. HEALTH HAZARD DATA**

**ROUTES OF ENTRY:** (X) INHALATION    ( ) SKIN    ( ) INGESTION    ( ) EYES

**HEALTH HAZARDS:** No health hazard under normal conditions. Dust from product may cause slight irritation to respiratory mucous membranes. Prolonged contact may cause slight skin irritation. May be slightly irritating to eyes.

**SIGNS AND SYMPTOMS OF EXPOSURE:** No effects of overdose listed in literature; however, overdose may cause weakness, diarrhea, circulatory problems and nausea.

**EMERGENCY FIRST AID:** If large amount ingested, give 2-3 glasses of water and induce vomiting. Obtain medical attention. For eye exposure, flush eyes with water for 15 minutes to remove dust. For skin exposure, wash skin with mild soap and water.

**POTENTIAL CARCINOGENICITY:** Not listed by (NTP) or (LARC).

**SECTION 7. PRECAUTIONS FOR SAFE HANDLING AND USE**

**IF MATERIAL IS RELEASED OR SPILLED:** Sweep up and scoop into suitable containers for use, recycle, or disposal.

**HANDLING AND STORAGE PRECAUTIONS:** Store in a cool dry location. Mildly corrosive to copper, brass, alloys, and metals. Store away from strong acids and oxidizers. Keep out of reach of children and pets.

**SECTION 8. CONTROL MEASURES**

**VENTILATION:** Natural ventilation outside.

**PROTECTIVE CLOTHING AND EQUIPMENT:** Dust respirator when necessary. Normal clean work clothing. Gloves when handling. Safety glasses.

**WORK HYGIENIC PRACTICES:** Available eyewash fountain and washing facilities. Wash hands after use. Wash work clothes after use.

FURTHER DETAILED INFORMATION AVAILABLE UPON REQUEST. THE INFORMATION ON THIS MSDS IS BELIEVED TO BE CORRECT AND IS GIVEN IN GOOD FAITH; HOWEVER, NO WARRANTY, EXPRESSED OR IMPLIED, IS INTENDED.  
Gro-Power, Inc.

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## GRO-POWER® PREMIUM GREEN® 6-18-8 25/HA

Gro-Power Inc.  
15065 Telephone Ave.  
Chino, CA 91710

**EMERGENCY PHONE NUMBERS:**  
(909) 393-3744

**General Hygiene Considerations:** Wash thoroughly after using product. Wash contaminated clothing. Wash hands before eating or drinking.

**EXPOSURE GUIDELINES:** See SECTION 6.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** A dry, light gray to dark gray, free-flowing mixture of granules available in various sizes ranging in size from 6 to 20 mesh.

**ODOR:** Odorless.

**PHYSICAL/CHEMICAL PROPERTIES:**

<b>Bulk density:</b>	66 lbs/ft <sup>3</sup>	<b>Freeze Point:</b>	Solid at STP	<b>% Volatile by Vol:</b>	0% H <sub>2</sub> O
<b>Water solubility:</b>	Slight	<b>Melting Point:</b>	>2000° F	<b>Vapor Density :</b>	N/A
<b>pH: (50% aqueous slurry)</b>	6- 8	<b>Boiling Point:</b>	N/A	<b>Vapor Pressure:</b>	N/A

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions of storage.

**CONDITIONS TO AVOID:** None under normal conditions.

**MATERIALS TO AVOID:** Components in product can react violently when mixed with hydrogen peroxide; ethylene oxide; strong acids; and oxidizing agents. Mixtures with aluminum plus calcium silicide plus sodium nitrate react violently if headed. Ignites on contact with hydrogen trisulfide.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal conditions. Above 2640° F could produce SO<sub>2</sub> and CaO.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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### SECTION 11: TOXICOLOGICAL PROPERTIES

#### RTECS TOXICITY DATA FOR PRODUCT COMPONENTS:

COMPONENT	CAS #	RTECS TOXICITY DATA
Iron Oxide, (Fe <sub>3</sub> O <sub>4</sub> )	1317-61-9	<b>Acute Intravenous:</b> Mouse Dose: LD <sub>50</sub> : 180 mg/kg; Rabbit (adult) LD <sub>50</sub> : 150 mg(Fe)/kg <b>Tumorigenic:</b> Rat route: Intraperitoneal, Dose: Toxic Dose Low; Rat route: Intramuscular, Dose: Toxic Dose Low; Mouse route: Subcutaneous, Dose: Toxic Dose Low.
Nonhazardous Integral Mineralogical Phases / Inert Materials	N/A	N/A
Manganese Compounds (as Mn)	7439-96-5	<b>Acute Oral:</b> Rat LD 50 Dose: 9 gm/kg. <b>Acute Inhalation:</b> Man TC Lo Dose: 2300 ug/m <sup>3</sup> ; Toxic Effects: Brain and coverings - Other degenerative changes; Behavioral - Change in motor activity (specific assay); Behavioral -Muscle weakness. <b>Irritation Eye:</b> Rabbit Standard Draize Test Dose: 500 mg/24H; Reaction: mild. <b>Irritation Skin:</b> Rabbit Standard Draize Test Dose: 500 mg/24H; Reaction: mild. <b>Tumorigenic:</b> Rat Route: Intramuscular; Dose: 400 mg/kg/1Y-I; Toxic Effects: Tumorigenic -Equivocal tumorigenic agent by RTECS criteria; Tumorigenic - Tumors at site of application.
Zinc Compounds (as Zn)	7440-66-6	<b>Acute Inhalation:</b> Human TCl <sub>o</sub> Dose: 124 mg/m <sup>3</sup> /50M; Toxic Effects: Lungs, Thorax, or Respiration - Cough; Lungs, Thorax, or Respiration - Dyspnea; Skin and appendages -Sweating. <b>Irritation Skin:</b> Human Standard Draize Test Dose: 300 ug/3D-I; Reaction: mild.
Quartz (SiO <sub>2</sub> )	14808-60-7	<b>Acute Inhalation:</b> Human LC Lo Dose: 300 ug/m <sup>3</sup> /10Y-I; Toxic Effects: Liver - Other changes. Human TC Lo Dose: 16 mppcf/8H/17.9Y-I; Toxic Effects: Lungs, Thorax, or Respiration -Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration - Cough; Lungs, Thorax, or Respiration - Dyspnea. <b>Chronic (Multiple Dose) Inhalation:</b> Rat Dose: 80 mg/m <sup>3</sup> /26W-I; Toxic Effects: Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis); Blood - Changes in spleen. Rat Dose: 108mgm <sup>3</sup> /6H/3D-I; Toxic Effects: Biochemical - Phosphatases; Biochemical - Other oxidoreductases; Biochemical - Other proteins. Rat Dose: 58 mg/m <sup>3</sup> /13W-I; Toxic Effects: Lungs, Thorax, or Respiration - Other changes; Endocrine - Changes in thymus weight; Blood -Changes in leukocyte (WBC) cell count. Rat Dose: 1475 ug/m <sup>3</sup> /8H/21W-I; Toxic Effects: Lungs, Thorax, or Respiration - Other changes. Rat Dose: 4932 ug/m <sup>3</sup> /24H/39W-C; Toxic Effects: Endocrine - Changes in spleen weight; Immunological including allergic - Decrease in humoral immune response. Rat Dose: 28 mg/m <sup>3</sup> /3W-I; Toxic Effects: Lungs, Thorax, or Respiration -Otherchanges; Lungs, Thorax, or Respiration - Changes in lung weight; Biochemical - Other enzymes. <b>Mutagenic:</b> Human Micronucleus Test; Cell Type: lung; Dose: 40 ug/cm <sup>2</sup> . Hamster Micronucleus Test; Cell Type: lung; Dose: 160 ug/cm <sup>2</sup> . <b>Tumorigenic:</b> Rat Route: Inhalation; Dose: 50 mg/m <sup>3</sup> /6H/71W-I; Toxic Effects: Tumorigenic - Carcinogenic by RTECS criteria; Liver - Tumors. Rat Route: Intravenous; Dose: 90 mg/kg; Toxic Effects: Tumorigenic - Equivocal tumorigenic agent by RTECS criteria; Blood -Lymphomax including Hodgkin's disease.

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**SECTION 12: ECOLOGICAL INFORMATION**

Derived from mineral ores. No data available on any adverse effects of this material on the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**RCRA:** This product, as manufactured, is not a RCRA listed hazardous waste and does not exhibit any characteristics of a hazardous waste, including toxicity (by EPA TCLP method.)

**DISPOSAL METHOD:** This product is generally suitable for landfill disposal. Follow all applicable Federal, State, and local laws, rules, and regulations regarding the proper disposal of this material. If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal. A qualified environmental professional should determine waste characterization, disposal, and treatment methods for this material in accordance with applicable Federal, State and local regulations and requirements.

**SECTION 14: TRANSPORTATION INFORMATION**

**USDOT INFORMATION:** This product is not regulated by USDOT as a hazardous material (49 CFR part 172.101). No UN code assigned. No placard required for transportation.

**LABEL:****CAUTION!**

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling and use. Keep in a closed container in a well-ventilated area.

**FIRST AID MEASURES:**

**Eye Contact:** Remove material by immediately flushing eyes with clean, flowing, lukewarm water (low pressure) for at least 15 minutes. Get medical attention if pain or irritation persists.

**Skin Contact:** Immediately wash affected area with mild soap and water to remove any dust adhering to the skin. Get medical attention if irritation develops or persists.

**Inhalation:** If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop. If not breathing, give artificial respiration or give oxygen by trained personnel, and get medical attention.

**Ingestion:** Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

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### SECTION 15: REGULATORY INFORMATION

#### COMPONENTS LISTED IN FEDERAL REGULATIONS AND STATE "RIGHT-TO-KNOW" LAWS:

COMPONENT	CAS #	FEDERAL					STATE (Right-to-Know)			
		RCRA	CERCLA	SARA	SARA EHS	TSCA	PA	NJ	MA	CA
Iron Oxide, Saccharated	8047-67-4	NO	NO	NO	NO	NO	NO	NO		YES
Nonhazardous Ingredients / Inert Materials / Proprietary <sup>1</sup>	N/A	NO	NO	NO	NO	NO	NO	NO	NO	NO
Manganese Compounds (as Mn)	7439-96-5	NO	YES <sup>1</sup>	YES	NO	YES	YES	YES	YES	NO
Zinc Compounds (as Zn)	7440-66-6	NO	YES <sup>2</sup>	YES	NO	YES	YES	YES	YES	YES
Quartz (SiO <sub>2</sub> )	14808-60-7	NO	NO	NO	NO	YES	YES	NO	YES	NO

#### NOTES:

- Listed as Compound per CAA Section 112
- Listed per CWA Section 307(a) RQ: 1000 lb (453.5 kg)

### SECTION 16: OTHER INFORMATION

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM of the National Paint & Coatings Association

##### HEALTH

- 0 - Normal Material
- 1 - Slightly Hazardous/Significant irritation
- 2 - Hazardous/Temporary incapacitation or residual injury
- 3 - Extreme Danger/Serious or permanent injury
- 4 - Deadly

##### REACTIVITY

- 0 - Stable
- 1 - Unstable under heat or pressure
- 2 - Violent chemical change under heat or pressure
- 3 - Shock and heat may detonate
- 4 - Capable of Detonation or Explosion

##### FLAMMABILITY

- 0 - Will not burn
- 1 - Must be preheated before ignition will occur (Flash point greater than 200° F)
- 2 - Must be moderately heated before ignition will occur (Flash point 100° F to 200° F)
- 3 - Can be ignited under almost all ambient temperatures (Flash point 73° F to 100° F)
- 4 - Will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature, or will burn readily when dispersed in air (Flash point below 73° F)

##### PERSONAL PROTECTION

- A - Safety Glasses
- B - Safety Glasses + Gloves
- C - Safety Glasses + Gloves + Apron
- D - Face Shield + Gloves + Apron
- E - Safety Glasses + Gloves + Dust Respirator
- F - Safety Glasses + Gloves + Apron + Dust Respirator
- G - Safety Glasses + Gloves + Vapor Respirator
- H - Splash Goggles + Gloves + Apron + Vapor Respirator
- I - Safety Glasses + Gloves + Dust and Vapor Respirator
- J - Splash Goggles + Gloves + Apron + Dust and Vapor Respirator
- K - Air Line Hood or Mask + Gloves + Full Suit Boots
- X - Ask supervisor or safety specialist for handling instructions.

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### ACRONYMS AND ABBREVIATIONS USED IN THIS MSDS:

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
CA	California Right-to-Know Law; CCR TITLE 8 - Division 1- Chapter 3.2 - Subchapter 1 - Article 5 -§339 The Hazardous Substances List
CAA	Clean Air Act; 40 CFR SUBCHAPTER C - AIR PROGRAMS (Parts 50-99)
CAS	Chemical Abstract Service
CAS#	CAS Registration Number is an assigned number to identify a material
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act, 40 CFR part 302.4 - Designation, Reportable Quantities, and Notification (Table 302.4)
CWA	Clean Water Act; 40 CFR SUBCHAPTER D - WATER PROGRAMS (Parts 100-149)
EPA	United States Environmental Protection Agency
HMIS	Hazardous Materials Identification System of the National Paint & Coatings Association
IARC	International Agency for Research on Cancer
M A	Massachusetts Right-to-Know Law; MGL PART I - TITLE XVI - CHAPTER 111F Hazardous Substances Disclosure By Employers
mg/m <sup>3</sup>	Milligrams per cubic meter
MSHA	Mine Safety and Health Administration
N/A	Not applicable
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health
NJ	New Jersey Right-to-Know Law; NJAC 8:59 - Worker and Community Right to Know Act
NTP	U.S. National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act (EPA), 40 CFR part 261 - Identification and Listing of Hazardous Waste
REL	Recommended Exposure Limit (NIOSH)
RQ	Reportable Quantity
RTECS	Registry of Toxic Effects of Chemical Substances : This database contains toxic effects data on some 140,000 chemicals. It is built and maintained by NIOSH.
SARA	Superfund Amendments and Reauthorization Act, 40 CFR part 372.65 - Toxic Chemical Release Reporting: Community Right-to-Know
SARA EHS	(SARA Extremely Hazardous Substances) 40 CFR part 355- Emergency Planning and Notification (Appendices A & B)
STEL	Short-term exposure limit (ACGIH)
STP	Standard temperature and pressure (T = ~70°F, P = 1 atm)
TCLP	Toxicity Characteristic Leaching Procedure (EPA Method 1311)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act, 40 CFR 716.120 - Health and Safety Data Reporting
TWA	Time Weighted Average
USDOT	United States Department of Transportation

### DISCLAIMER:

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