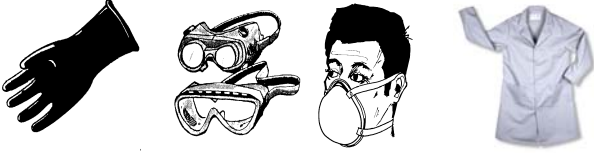
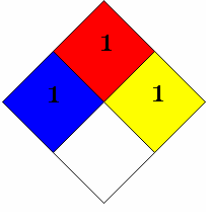



Personal Protective Equipment	NFPA	HMIS
		
See Section 8		

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GROW

MSDS# GROW [3]

Trade Name: Grow
 Formula: Mixture, proprietary
 Manufacturer's name: Cutting Edge Solutions, LLC
 1572 Hampton Way
 Santa Rosa, CA 95402
 Phone: 707-528-0522 Monday-Friday 8:00 a.m.-6:00 p.m PST, general information
 Fax: 707-528-0422

Poison Control: 1-800-222-1222
TDD: 1-800-972-3323

SECTION 2: HAZARDS IDENTIFICATION

Routes of entry: Skin: √ Eye: √ Ingestion: √ Inhalation: √

EYE- May cause irritation, redness and pain to the eyes.

SKIN- May cause irritation and redness at the site of contact. May be harmful if absorbed through the skin.

INGESTION- May cause nausea, vomiting, and diarrhea if swallowed. May be harmful if swallowed.

INHALATION- May cause respiratory tract irritation if inhaled. May be harmful if inhaled.

Medical conditions or medications generally known to be aggravated by exposure to product: Not known.

Frequency and duration of exposure: Not known.

Effects of chronic overexposure: May cause methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis, rapid heart rate, and chocolate-brown colored blood. May cause kidney injury.

CARCINOGENECITY: NTP: Not listed. IARC: Not listed. NTP: Not listed.
 OSHA: Not listed. AICGH: Not listed.

CONTINUED ON NEXT PAGE

SECTION 3: COMPOSITION

Components	CAS No.
Magnesium Sulfate	7487-88-9
Ammonium Nitrate	6484-52-2
Potassium Nitrate	7757-79-1
Mono-Potassium Sulfate	7778-77-0
Methylparaben	99-76-3
Polyparaben	94-13-3
Potassium sorbate	590-00-1

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Contact a physician.

SKIN: Wash areas of contact with soap and water for 15 minutes. Remove any contaminated clothing and footwear. If irritation continues consult a physician.

INGESTION: If swallowed do not induce vomiting. Wash out mouth with water. If conscious, give 2-4 cupfuls of milk or water. Consult a physician immediately. Never give any liquids by mouth to an unconscious person.

INHALATION: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain immediate medical attention if symptoms occur.

Use proper hygiene practices when using this product (nitrile gloves, eye protection, NIOSH approved respirator if used as an aerosol).

Utilize protective clothing to minimize skin contact (apron, lab coat, long sleeved shirt, pants, no shorts, no cut T-shirts).

Wear closed-toed shoes (no sandals/flip-flops) when using product.

Keep hair pulled back and out of face/eye area when using product.

SECTION 5: FIRE FIGHTING MEASURES

Flammable properties:	Not available.
Extinguishing media:	Use suitable extinguishing media for the surrounding fire. CO ₂ , dry chemical powder, foam. Caution: CO ₂ will displace air in confined spaces and may cause an oxygen deficient atmosphere.
Special firefighting procedures:	Not available.
Unusual Fire and Explosion Hazards:	Not available.
Protection of Firefighters:	Burn vapors may be irritating to eyes, skin, and the respiratory tract. Firefighters should utilize self contained breathing apparatus (SCBE) and full fire fighting gear (Bunker gear).
Stability:	Stable at room temperature.
Incompatibility (materials to avoid):	Strong oxidizing agents, strong acids, aluminum, phosphorus, zinc, antimony, boron, germanium, combustible and flammable als (e.g., alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane), titanium, thorium carbide, carbon, metal sulfides, sodium phosphinate, sodium thiosulfate, calcium disilicide, zirconium, tin chloride, acetic acid, finely powdered metals, sulfur, ammonium chloride.

CONTINUED ON NEXT PAGE

Hazard decomposition or by products: Decomposing plastic fumes from containers, Oxides of Phosphorus, Nitrogen oxides, ammonia and/or derivatives, oxygen.
Hazardous polymerization: Not available.
Conditions to avoid: Do not store above 100° F as container may rupture.

See SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES for Flammable properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8. Contain and isolate any hazard area from unprotected personnel.

Spill response procedures: Absorb liquid spills with an absorbent; contain material and dispose of at an approved landfill in accordance with local, state, and federal regulations. Finish cleaning by spreading water on contaminated surfaces and dispose of in an approved landfill in accordance with local, state, and federal regulations.

Clean water act requirements: Not available
Resource Conservation and Recovery Act: Not available

SECTION 7: HANDLING AND STORAGE

Precautions: Use with adequate ventilation. Keep container away from heat sources. Do not ingest. Do not breathe vapors. Do not pour on skin. If ingested, seek medical advice immediately and show the container or the label on the container.

Storage: Store out of direct sunlight. Store in a cool, dark place that is well ventilated. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS

Engineering controls: Use with local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. If usage results in the generation of fume or mist, use adequate ventilation to keep exposure to airborne contaminants below exposure limits.

Personal Protection: Wear protective safety glasses, lab coat or apron, NIOSH particle respirator and gloves when handling.

Respiratory protection: Wear NIOSH approved particle respirators if applying as a mist or spray. Follow the OSHA respirator regulations found in 29 CFR 1910.134

Ventilation: Use with adequate ventilation.

Protective gloves: Use with Nitrile gloves. Latex gloves can cause allergies in susceptible individuals.

Eye protection: Use with safety glasses or goggles.

Other protective clothing and equipment: Protective clothing to minimize skin contact should be worn. Wear closed-toed shoes when using product. Keep hair pulled back and out of face/eye area when using. Wear long sleeve shirts, pants, and socks.

Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.

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Exposure limits: Components	CAS No.	ACGIH/TWA	OSHA PEL/8hrTWA
Magnesium Sulfate	7487-88-9	Not established	Not established
Ammonium Nitrate	6484-52-2	Not established	Not established
Potassium Nitrate	7757-79-1	Not established	Not established
Mono-Potassium Sulfate	7778-77-0	Not established	Not established
Methylparaben	99-76-3	Not established	Not established
Polyparaben	94-13-3	Not established	Not established
Potassium sorbate	590-00-1	Not established	Not established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Greenish-Yellow, odor of Table Salt.
Boiling Point:	Not available
Solubility in Water:	Soluble in water (w/w)
Vapor pressure:	Not available
Melting Point:	Not available
Molecular Weight:	unknown
Specific Gravity:	1.18
pH:	4.0
Evaporation Rate:	Not available
Flash Point:	Not available
Flammable limits:	LEL: Not available UEL: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability:	The product is stable under normal conditions.
Instability Temperature:	Avoid freezing. [See section 5 Fire Fighting Measures, on container properties]
Incompatibility (materials to avoid):	Strong oxidizing agents, strong acids, aluminum, phosphorus, zinc, antimony, boron, germanium, combustible and flammable als (e.g., akyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane), titanium, thorium carbide, carbon, metal sulfides, sodium phosphinate, sodium thiosulfate, calcium disilicide, zirconium, tin chloride, acetic acid, finely powdered metals, sulfur, ammonium chloride.
Hazard decomposition or by products:	Decomposing plastic fumes from containers, Oxides of Phosphorus, Nitrogen oxides, ammonia and/or derivatives, oxygen.
Hazardous polymerization:	Not available.
Conditions to avoid:	Do not store above 100° F as container may rupture.

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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of entry: Skin. Eyes. Ingestion. Inhalation.

RTECS#

CAS # 6484-52-2: BR(050000

CAS# 7778-77-0: TC6615500

CAS# 7757-79-1: TT3700000

LD50/LC50:

CAS# 6484-52-2: Oral, rat: LD50=2217 mg/kg

CAS# 7778-77-0: Skin, rabbit: LD50 ≥ 4640 mg/kg

CAS# 7757-79-1: Oral, rabbit: LD50= 1901 mg/kg; Oral, rat: LD50=3750 mg/kg; Oral, rat: LD50= 3540 mg/kg

Chronic effect on Humans: See section 2, Hazard Identification.

Other toxic effects on humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Not available.

Heavy metals content: None. Information on heavy metals content and levels are available at

<http://www.aapfco.org/metals.htm>

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal: Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

Recycling: Triple rinse container and recycle empty containers at appropriate recycling facilities in accordance with federal, state, and local environmental control regulations.

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SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material in the United States of America.

IATA/IMO/RID/ADR: Not applicable.

Special provisions for transport: Keep containers closed and keep from freezing.

Do not store above 100° F.

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations:

California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains the following ingredients known to the State of California to cause birth defects, cancer, or other reproductive harm and require a warning under the statute: NO products were found.

CONTINUED ON NEXT PAGE

TSCA: All ingredients are on the inventory or exempt from listing.
SARA Title III Rules
Section 313 Toxic Chemicals: None
Section 302 EHS: None

International Regulations: This product is not currently sold outside the continental United States of America.

WHIMS: Not Applicable
EINECS: Not Applicable
METI: Not Applicable
KECL: Not Applicable
AICS: Not Applicable

Note to the reader

This Material Safety Data Sheet is applicable only to the material as packaged. This product contains chemicals and all chemicals may pose unknown hazards and should be used with utmost caution. The information and recommendations contained herein are represented to be in good faith, and believed to be as accurate as possible within the current version of this Material Safety Data Sheet (MSDS). If this product is mixed with any other materials and/or chemicals, deteriorates, or becomes contaminated with microbiological or chemical agents, it may pose hazards not listed or discussed in this MSDS. It is the end users responsibility to insure proper procedures are developed and adhered to when utilizing this product. This includes utilizing proper personal protection equipment, proper handling, and usage protocols based on the end users actual usage of the product. While his MSDS is based on technical data determined to be accurate, and created in good faith, CES assumes no responsibility for the completeness or accuracy of the information contained herein. Cutting Edge Solutions, LLC (CES) makes no representation as to the completeness or accuracy of this MSDS. In no event will CES or the seller be liable for consequential, incidental, special, exemplary, or indirect damages resulting from the use of this MSDS.

FINAL PAGE GROW MSDS