

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED For:

Growing Solutions, Inc.  
21719 S. Center Ave., Unit D  
New Lenox, IL 60451

**PRODUCT NAME:** ReCHARGE  
**CHEMICAL NAME:** Inorganic/Organic Fertilizer Mixture  
**CHEMICAL FAMILY:** N/A

**Date of Issue:** 01/27/13

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - CAUTION** - May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, and sores. In case of contact, flush with water. Get medical attention for eyes. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye and skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a dark brown-colored liquid with sugary, molasses and slight ammonia odor. Primary routes of entry are inhalation, eye contact and skin contact.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

No hazardous ingredient exceeds 1% of mixture.

<u>Chemical Ingredients:</u>	<u>Percentage of Weight:</u>	<u>CAS No.</u>
Molasses	25.0%	Mixture
Ferrous sulfate	6.7%	7720-78-7
Citric acid	0.5%	77-92-9
Zinc sulfate	0.8%	7733-02-0
Manganese nitrate	5.0%	10377-66-9
Magnesium Sulfate	5.2%	7487-88-9
Kelp extracts	5.0%	Mixture
Amino acid solution	7.0%	Mixture

## 4. FIRST AID MEASURES

**If in eyes:** Immediately rinse with water for 5 minutes  
**If on skin:** Wash skin with soap and water  
**If swallowed:** Rinse mouth with water and drink large a quantity of water  
**If inhaled:** Remove product or move person to fresh air

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** None to boiling  
**FLAMMABLE LIMITS (LFL & UFL):** Not applicable

**EXTINGUISHING MEDIA:** Use water spray, dry chemical or carbon dioxide  
**HAZARDOUS COMBUSTION PRODUCTS:** Vapors are non-toxic and non-irritant  
**SPECIAL FIRE FIGHTING PROCEDURES:** Remove container from fire area

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.  
**STORAGE:** Store in the original labelled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required.  
**PERSONAL PROTECTIVE EQUIPMENT:** Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required, but its use is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** brown liquid with a seaweed/ vinegar smell  
**SOLUBILITY:** Appreciable  
**pH:** 5.4  
**SPECIFIC GRAVITY (Water = 1):** 1.22  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** Not applicable  
**BULK DENSITY:** 10.2  
**BOILING POINT:** 100°  
**EVAPORATION RATE:** Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable for at least 2 years under normal conditions.  
**INCOMPATIBILITY:** Strong bases and oxidizing agents.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** none  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub>(rat):** >5600 mg/kg in rats – non-toxic  
**Acute Dermal LD<sub>50</sub>(rabbit):** >8600 mg/kg in rats- non- toxic  
**Eye Irritation (rabbit):** Non-irritant in rabbits. **Skin Irritation (rabbit):** Non-irritant in rabbits.  
**Inhalation LC<sub>50</sub>(rat):** Not established **Skin Sensitization (guinea pig):** Not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC, or ACGIH

## 12. ECOLOGICAL INFORMATION

**Ecotoxicology:** Due to the non-toxic classification of this product no negative impact on wildlife is expected.

**Biodegradation:** Oxidation and microorganisms.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Contaminated absorbents and surplus product should be buried in accordance with any local legislation.

**Container disposal:** Wash thoroughly with water and soap prior to reuse.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**U.S. Surface Freight Classification:** FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 5; CLASS 50)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
	4 Severe		

**SARA Hazard Notification/Reporting**  
**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Not listed  
**RCRA Waste Code:** Not listed  
**CA Proposition 65: WARNING:** This product contains chemicals known to State of California to cause cancer or birth defects or other reproductive harm.

**16. OTHER**

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material of process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Custom Agronomics, Inc. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.