

MATERIAL SAFETY DATA SHEET

MANUFACTURED BY:
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1. PRODUCT IDENTIFICATION

PRODUCT TRADE NAME: Root Guard 1-2-1
CHEMICAL FAMILY: Liquid Bio-Nutrient Formulation
FORMULA: NA, Formulated Mixture.
SYNONYMS: Transplant Additive
CAS NUMBER: NA, Formulated Mixture.
EPA NUMBER: None required.

DATE PREPARED: Jan 15, 2013
National Fire Protection Association Rating
Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum
Health 1
Flammability 0
Reactivity 0

2. INGREDIENTS AND HAZARDS

INGREDIENT	CAS#	Limits
Bacterial cultures	68920-42-3	Proprietary formulation
Ferrous sulfate	10038-22-5	Proprietary formulation
Magnesium nitrate	10377-60-3	Proprietary formulation
Manganese sulfate	10034-96-5	Proprietary formulation
Zinc sulfate	7733-02-0	Proprietary formulation
Amphorous polymer	68153-82-2	Proprietary formulation
Sea Plant Extract	9005-38-3	Proprietary formulation
Yucca Extract	90147-57-2	Proprietary formulation

HAZARD CLASSIFICATION:

IRRITANT

HAZARDOUS INGREDIENTS

CAS #

LIMITS

Contains no hazardous components as listed in 29 CFR 1900.1000 or other pertinent sections of OSHA regulations.

3. PHYSICAL DATA

APPEARANCE: Dark Brown liquid
ODOR: Earthy
SPECIFIC GRAVITY: 1.08
BOILING POINT: N/A
FREEZING POINT: N/A

BULK DENSITY: N/A
SOLUBILITY IN WATER: Soluble
pH: 5.4 in distilled water
VOLATILES: None

NA = NOT APPLICABLE

4. FIRE AND EXPLOSION DATA

FLASH POINT, F, COC: None
FLAMMABLE LIMITS: Not established
AUTO IGNITION TEMPERATURE: Not established
EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide.
FIRE & EXPLOSION HAZARD: Firefighters should use self-container breathing apparatus to avoid exposure to smoke and vapor.
FIRE & EXPLOSION HAZARD: None known.
SPECIAL PROCEDURES: Keep away from water. Material will dissolve.

5. REACTIVITY DATA

STABILITY:	Product is stable.
INCOMPATIBILITY:	Avoid contact with strong oxidizing agents.
DECOMPOSITION PRODUCTS:	None known.
HAZARDOUS POLYMERIZATION:	Will not occur.

6. HEALTH HAZARD DATA

ROUTES OF EXPOSURE: Ingestion, eyes, and skin.

SYMPTOMS

INGESTION: May cause gastric distress as evidences by nausea and diarrhea.

EYES: May cause pain, excessive watering, redness and stinging.

SKIN : Prolonged exposure or repeated exposures may cause skin irritation and drying.

FIRST AID

EYES: Irrigate immediately with water for at least 5 minutes. Consult physician if irritation persists.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effect anticipated by this route of exposure incidental to proper industrial handling. For accidental ingestion of copious quantities by children, or appearance of symptoms noted in Section VI, contact a physician prior to taking any medical action.

NOTE TO CARE AID ATTENDANTS: Provide supportive care, consult and have available MSDS sheet and make said information known and available to attending medical support personnel.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

ACTION TO TAKE FOR SPILLS/LEAKS: Contain spills by diking with dirt, sand or other absorbent material. Rope off area to prevent inadvertent spread of spill. Place leaking containers in overpak containers or transfer material to clearly marked new containers. Upon discovery of leak or spillage, notify proper supervisory personnel and if situation warrants, notify the proper Local or State hazardous waste response units prior to taking any action other than initial emergency response. All materials used to absorb leak or spill should be handled and disposed of in accordance to Local, State and Federal environment laws. Workers performing clean-up duties should be made aware of any potential health hazards and must wear the correct protective clothing and devices needed to perform the duties in a safe proper manner.

PRODUCT DISPOSAL: Excess product that cannot be used without violating label instructions must be disposed of in a manner that is in full compliance of Local, State and Federal laws.

CONTAINER DISPOSAL: Check with Local and State authorities for proper disposal prior to offering for recycling, incineration or sanitary land fill. Containers sent to local land fills should be triple rinsed, punctured and crushed prior to disposal.

HANDLING & STORAGE: Keep away from water. Material will dissolve in the presence of moisture. High humidity will cause product to cake.

8. CONTROL MEASURES

RESPIRATORY PROTECTION:	Not required
VENTILATION:	No special requirements
PROTECTIVE GLOVES:	Chemical resistant rubber gloves
EYE PROTECTION:	Chemical protective eye wear.
WORK/HYGIENIC PRACTICES:	Avoid contact with eyes, skin, clothing. Wash thoroughly after handling.

9. REGULATORY STATUS

This product does not contain material regulated under SARA Title 3 Section 313