

MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT & COMPANY IDENTIFICATION

DATE PRINTED: 3/16/2005

PRODUCT NAME: Root-Zone (Soil Loading Anti-transpirant)

PRODUCT NUMBER: ROOTZ01 & ROOTZ05

SUPPLIER:

GLESSNER SALES INCORPORATED

DBA: GSI Horticultural

141 NW Greenwood, Suite 200

Bend, OR 97701

Phone: 541-383-0222 Fax: 541-388-2351

E-mail: info2@gsihorticultural.com

MANUFACTURER:

Drew Paints

1525 NW 23rd Ave.

Portland, OR 07210

1-800-924-7874

Emergency (800)424-9300 Chemtrec

Non-Emergency Safety, Health & Environmental Information (541) 383-0222

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

ITEM.....	CHEMICAL NAME.....	CAS NUMBER.....	PERCENT
ROOTZ01/05	Polyol Humectant Plus Activation Agents	50-70-4	70%
	Organic Hygroscopic Compound & Water	7732-18-5	30%

This product is considered non-hazardous by the criteria specified in 29 CFR 1910.1200 (Hazard Communication)

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Product is clear, viscous, nonflammable liquid. May cause slight eye irritation.

HAZZARD STATEMENT: – May cause slight eye irritation

POTENTIAL HEALTH EFFECTS: EYES: Significant irritation would not be expected upon contact with the eyes.

POTENTIAL HEALTH EFFECTS: SKIN: No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

POTENTIAL HEALTH EFFECTS: INHALATION: Inhalation of this product would not be expected to produce adverse effects.

POTENTIAL HEALTH EFFECTS: INGESTION: Ingestion of small amounts would not be expected to produce toxicity. However, ingestion of large amounts may produce gastrointestinal disturbances including vomiting.

HMIS RATINGS: Health 0, Fire 0, Reactivity: 0, Pers.Prot: safety glasses with side shields

Hazard Scale: 0=minimal 1=slight 2=moderate 3=serious 4=severe *Chronic hazard

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: If respiratory irritation occurs upon inhalation remove to fresh air. Seek medical attention if symptoms develop or persist.

INGESTION: If swallowed in large amounts. Get medical help immediately. Do not induce vomiting unless directed to do so by medical personnel.

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SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: N/A

UPPER EXPLOSIVE LIMIT: N/A

AUTO IGNITION: N/A

LOWER FLAMMABLE LIMIT: N/A

RATE OF BURNING: N/A

FLAMMABILITY CLASSIFICATION: Non-flammable

GENERAL FIRE HAZZARDS: Product is aqueous solution that will not burn

HAZARDOUS COMBUSTION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons

EXTINGUISHING MEDIA: Use suitable for surrounding fire.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS: Firefighters should wear full protective clothing including self-contained breathing apparatus.

NFPA Ratings: Health: 0 Fire 0 Reactivity: 0 Other

Hazard Scale: 0=minimal 1=slight 2=moderate 3=serious 4= severe

SECTION 6 – ACCIDENTAL RELEASE MEASURES

CONTAINMENT PROCEDURES: Contain the discharged material.

CLEAN UP PROCEDURES: Wear appropriate equipment and clothing during clean-u. Absorb spilled material with inert absorbent material.

EVACUATION PROCEDURES: N/A

SPECIAL PROCEDURES: None

SECTION 7 – HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated skin contact with the material. Avoid getting this material into contact with your eyes. Wash thoroughly after handling.

STORAGE: Keep container tightly closed and store at ROOM temperature. Do not allow to freeze.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

A. GENERAL PRODUCT INFORMATION: Exposures should be minimized in accordance with good industrial hygiene practices.

B. COMPONENT EXPOSURE LIMITS: ACGIH, OSHA and NIOSH have not developed exposure limits for any of this products components.

ENGINEERING CONTROLS: Ventilation should be sufficient to effectively remove and prevent buildup of vapors or mists generated during handling.

PERSONAL PROTECTIVE EQUIPMENT:

EYES/FACE: Wear appropriate eye protection.

SKIN: Wear impervious gloves for prolonged contact.

RESPERATORY: If ventilation is not sufficient to effectively remove and prevent buildup of vapors or mists, appropriate NIOSH/MSHA approved respiratory protection should be provided.

GENERAL: Use good hygiene practices in handling this material.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid

Physical State: Liquid

Vapor Pressure: Not available

Boiling Point: 221F

Solubility (H₂O): Soluble

Freezing Point: Not available

Softening Point: N/A

Viscosity: Not available

Percent Volatile: Not available

Odor: None

pH: Approx 7

Vapor Density: Not available

Melting Point: N/A

Specific Gravity: 1.3

Particle Size: N/A

Evaporation Rate: Not available

Bulk Density: N/A

Molecular Weight: Mixture

Physical properties: Additional Information: None

SECTION 10 – CHEMICAL STABILITY AND REACTIVITY

Chemical Stability: Stable

Chemical Stability: Conditions to avoid: None

Incompatibility: None known

Hazardous Decomposition: Upon decomposition this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11- TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Acute Toxicity:

A. General Product Information:

Root-Zone overexposure may produce some discomfort and gastrointestinal disturbances but symptoms are reversible and usually disappear when exposure stops.

B. Component Analysis: LD50/LC50

Root Zone (50-70-4)

Oral LD50 Mouse: 17800 mg/kg

Oral LD50 Rat: 15900 mg/kg

Carcinogenicity:

A. General Product Information:

No carcinogenicity data available for this product.

B. Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Eidemiology: No epidemiological data is available for this product.

Neurotoxicity: No data available for this product.

Mutagenicity: No data available for this product.

Teratogenicity: No data available for this product

Other Toxicological Information: None available

Ecotoxicity: No data available for this product

Environmental Fate: No data available for this product

SECTION 12 – DISPOSAL CONSIDERATIONS**US EPA Waste Number and Descriptions****A. General Product Information:**

Empty container retains product residue. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Empty container; remove all product residue. Puncture or otherwise destroy empty container before disposal.

B. Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions: All wastes must be handled in accordance with local, state and federal regulations.

SECTION 13 –TRANSPORTATION INFORMATION**US DOT Information:**

Shipping Name: Not regulated

Hazard class: Not regulated

UN/NA#: None

Packing Group: None

Required Label(s): None

International Transportation Regulations: Not regulated as dangerous goods.

SECTION 14 – REGULATORY INFORMATION *****US Federal Regulations**

A. General Product Information: No information available

B. Component Analysis: None of this products components are listed under SARA Section 302 (40CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4)

State Registrations:

A: General Product Information: No information available.

B: Component Analysis – State: None of this product's components are listed on the state lists from CA, FL, MA, MN, HJ, or PA.

Other Regulations:

A. General Product Information: None

B. Component Analysis – Inventory

C. Component Analysis – WHMIS IDL: No components are listed in the WHMIS IDL.

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END OF MSDS