

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS  
ST. LOUIS PARK, MN 55426

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)

**PRODUCT NAME** : Verdur  
**CHEMICAL NAME** : Ferric Ammonium Citrate  
**ACTIVE INGREDIENT** : A complex salt of undetermined structure  
**CHEMICAL FAMILY** : Micro nutrient fertilizer  
**PRODUCT CODE** : 2101  
**CAS NUMBER** : 1185-57-5  
**EPA SIGNAL WORD** : NA

### SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENTS	OSHA PEL	ACIGH TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Ferric Ammonium Citrate	Not Established	1 mg/m <sup>3</sup>	Not Established	Not Established

### SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

**HEALTH HAZARDS:** Warning! May cause irritation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**REACTIVITY HAZARDS:** Stable under ordinary conditions of use and storage.

### SECTION 4 - FIRST AID MEASURES

**IF SWALLOWED:** If large amounts were swallowed, get medical advice.

**IF IN EYES:** Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**IF INHALED:** Remove to fresh air. Get medical attention for any breathing difficulty.

**IF ON SKIN:** Remove any contaminated clothing. Wash exposed area with soap and water. Get medical advice if irritation develops.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION 5 - FIRE FIGHTING MEASURES

**FIRE HAZARD:** Fire is possible at elevated temperatures or by contact with an ignition source.

**EXPLOSION HAZARD:** Not considered to be an explosion hazard.

**FIRE FIGHTING INSTRUCTIONS:** Use water fog, carbon dioxide, or dry chemicals for extinguishing surrounding fire.

**FIRE FIGHTING EQUIPMENT:** In the event of fire, wear full protective clothing and NOISH-approved self contained breathing apparatus with full face pieces operated in the pressure demand or other positive mode..

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILL OR LEAK:** Sweep, scoop, or pick up spilled material. Collected waste may be transferred to a closed, preferably plastic, container and sent to an approved waste disposal facility.

## **SECTION 7 - HANDLING AND STORAGE**

KEEP OUT OF REACH OF CHILDREN!

**STORAGE:** Keep in tightly closed container, protect from light and store in a cool, dry, ventilated area. Protect against physical damage.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**EXPOSURE LIMITS (8 HOUR TWA):** (Refer to Section 3)

**ENGINEERING CONTROLS:** A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION** – Use chemical safety goggles and/or full face shield where dusting or splashing of solution is possible

**CLOTHING** – Wear protective gloves and clean body-covering clothing.

**RESPIRATOR** – Where exposure to the dust is apparent, a dust/mist respirator may be worn.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL DESCRIPTION:** Brownish-yellowish powder

**ODOR:** Odorless with mild ferruginous taste

**WATER SOLUBILITY:** 25g in 100 H<sub>2</sub>O @ 20°C

## **SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable under normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Not established

**HAZARDOUS DECOMPOSITION PRODUCTS:** Ammonia, NO<sub>x</sub>

**HAZARDOUS POLYMERIZATION:** Will not occur.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

**INHALATION:** Inhalation of high concentrations of dust may cause nasal or lung irritation.

**INGESTION:** Ingestion can produce gastrointestinal irritation.

**SKIN CONTACT:** Contact may cause irritation or rash, particularly with moist skin.

**EYE CONTACT:** Redness, tearing, possible abrasion can occur.

**CHRONIC EXPOSURE:** No information found.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

**CONTAINER:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

### **SECTION 14 - TRANSPORT INFORMATION**

**DOT SHIPPING DESCRIPTION:** RQ, Environmentally hazardous substance, solid, NOS, (Ferric Ammonium Citrate)

**DOT HAZARD CLASS:** 9

**UN NUMBER:** 3077

**DOT PACKING GROUP:** PG III

**ADDITIONAL MARKINGS:** "Marine Pollutant" required for bulk shipments or when transporting by vessel. (The words "Marine Pollutant" must be entered on the shipping paper in association with the basic DOT description for bulk shipments.

During an incident involving this material, use of DOT Emergency Response Guide No. 171 (Version 1996) is also recommended.

### **SECTION 16 - OTHER INFORMATION**

For non-emergency questions about this product call: 1-877-ARBORIST

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