

# MATERIAL SAFETY DATA SHEET

**Date Issued: October 24, 2006**

**Date Revised: May 12, 2008**

**Revision No: 2**

## SECTION 1: PRODUCT and COMPANY IDENTIFICATION

**PRODUCT NAME: TerraCycle® Lawn Fertilizer, 5-0-1**

**DESCRIPTION: Liquid Fertilizer**

**MANUFACTURER**

**TerraCycle, Inc.  
121 New York Ave.  
Trenton, NJ 08638**

**DOMESTIC EMERGENCY PHONE**

**TerraCycle (U.S.): (609) 393-4252**

**FAX: (609) 393-4259**

**PREPARED BY: Bill Gillum**

**SECTION 1 NOTES:**

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Components</b>	<b>CAS-No</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Sodium Nitrate (Chilean-Mined mineral)	7631-99-4	Not Available	Not Available
Fish Tankage	Not Available	Not Available	Not Available
Potassium Sulfate (Mined Mineral)	7778-80-5	Not Available	Not Available
Vermicompost (Worm Castings)Extract	Not Available	Not Available	Not Available

**SECTION 2 NOTES: Vermicompost extract is a biological digest of organic materials and is a proprietary mixture.**

## SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW: May cause irritation to the skin and eyes. Wash areas of contact with soap and water. Call a physician if irritation develops. Not considered a hazardous substance.**

**IMMEDIATE CONCERNS: CAUTION: Do not ingest. KEEP OUT OF REACH OF CHILDREN.**

**CHRONIC EFFECTS/CARCINOGENICITY:** Prolonged exposure to small amounts of sodium nitrate may produce anemia, methemoglobinemia, nephritis. Product contains approximately 30% sodium nitrate by weight.

**EYE CONTACT:** May cause eye irritation with prolonged contact.

**SKIN CONTACT:** May cause skin irritation in sensitive individuals.

**INGESTION:** Large doses may cause gastroenteritis. Symptoms may include nausea, vomiting and diarrhea.

**INHALATION:** Not likely to be hazardous by respiratory tract. High mist concentrations may cause mild respiratory tract irritation.

SECTION 3 NOTES:

## **SECTION 4: FIRST AID MEASURES**

**EYE CONTACT:** Hold eye open and rinse immediately with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN CONTACT:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

SECTION 4 NOTES:

## **SECTION 5: FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Water spray, carbon dioxide, dry or chemical foam.

**FIRE & EXPLOSION POTENTIAL:** Not combustible. May react with reducing agents and combustibles. Closed containers may rupture violently under fire conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May generate oxides of nitrogen, potassium and phosphorous.

**FIRE FIGHTING PROCEDURES:** Flood with water to cool containers. Select appropriate method to surround and extinguish fire. Wear self-contained breathing apparatus and full protective gear.

SECTION 5 NOTES: The solution is greater than 50% water by weight.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**GENERAL INFORMATION:** Use proper personal protective equipment.

**SPILLS/LEAKS:** Use good housekeeping practices. Vacuum or sweep up spills immediately and place into a suitable disposal container. As a general practice, avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Remove material to approved landfill.

SECTION 6 NOTES:

## **SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Avoid container breakage. Avoid inhalation and contact with skin, eyes or clothing. Wash hands with soap and water after handling product.

**STORAGE:** Store in any protected area; extreme temperatures and freezing should be avoided. Also avoid direct sunlight during storage. Keep away from feed or foodstuffs.

**OTHER PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN AND PETS.

SECTION 7 NOTES:

## **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**PROPER HANDLING:** This product is intended for responsible use. Read and follow directions on label.

**ENGINEERING CONTROLS:** Use adequate ventilation to keep the airborne concentrations of the material below the recommended exposure standard.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYES AND FACE:** Protective eye wear is typically not required for normal use.

**SKIN:** No special protective clothing is necessary under normal use conditions. Gloves are suggested for repeated handling of lawn care products.

**RESPIRATORY:** No special respiratory protection is required under normal outdoor use conditions.

SECTION 8 NOTES:

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

**APPEARANCE:** Translucent to clear

**COLOR:** Light brown

**ODOR:** Slight fishy

**PHYSICAL STATE:** liquid

**PH AS SUPPLIED:** 5.0 – 7.0

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.25

**SOLUBILITY:** Completely soluble in water

**FLASH POINT:** N/A

**VOLATILE ORGANIC COMPOUNDS (VOC):** None known

SECTION 9 NOTES:

## SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABILITY: **Stable under normal conditions of use and storage.**

CONDITIONS TO AVOID (STABILITY): **Extreme heat.**

INCOMPATIBILITY (MATERIAL TO AVOID): **The dried residue contains a strong oxidizer. Avoid contact with the dried residue and reducing agents, finely powdered metals, organic material, combustible materials, easily oxidizable materials.**

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: **Toxic fumes and gases may be generated including oxides of nitrogen and phosphorous.**

CONDITIONS TO AVOID (POLYMERIZATION): **None known**

SECTION 10 NOTES:

## SECTION 11: TOXICOLOGICAL INFORMATION

CARCINOGENIC EFFECTS:

Components	NTP	IARC	OSHA
Sodium Nitrate (Chilean-Mined mineral)	Not listed	Not listed	Not listed
Fish Tankage	Not listed	Not listed	Not listed
Potassium Sulfate (Mined Mineral)	Not listed	Not listed	Not listed
Vermicompost (Worm Castings)Extract	Not listed	Not listed	Not listed

GENERAL COMMENTS: **There are limited data regarding this product. Exposure to this product can occur by eye and skin contact, ingestion, or inhalation of mists. Eye contact may cause slight, temporary irritation. Skin contact may cause mild irritation in susceptible persons. High mist concentrations may cause mild respiratory tract irritation with coughing and nasal discharge. All materials contained in this product are considered to have low toxicity by the expected routes of exposure.**

SECTION 11 NOTES:

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS: **No data is available on the product itself.**

PERSISTENCE AND DEGRADABILITY: **Inherently biodegradable. Non-persistent.**

BIOACCUMULATIVE POTENTIAL: **Does not bioaccumulate.**

MOBILITY: **Water contaminating.**

AQUATIC TOXICITY: **May be beneficial to plant life.**

ADDITIONAL ECOLOGICAL INFORMATION: **Do not apply directly to lakes, streams, or ponds.**

SECTION 12 NOTES:

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: **Dispose of in accordance with local regulations and national regulations.**

CONTAMINATED PACKAGING: **Do not re-use empty containers. If empty, place in trash or offer for recycling if available.**

SECTION 13 NOTES:

## SECTION 14: TRANSPORT INFORMATION

U.S. DEPT OF TRANSPORATION PROPER SHIPPING NAME: **Not regulated**

**The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.**

SECTION 14 NOTES:

## SECTION 15: REGULATORY INFORMATION

<b>Components</b>	<b>CERCLA/SARA 313</b>	<b>CERCLA/SARA 302</b>
Sodium Nitrate (Chilean-Mined mineral)	Not listed	Not listed
Fish Tankage	Not listed	Not listed
Potassium Sulfate (Mined Mineral)	Not listed	Not listed
Vermicompost (Worm Castings)Extract	Not listed	Not listed

SECTION 15 NOTES:

## SECTION 16: OTHER INFORMATION

**MANUFACTURE DISCLAIMER: The information contained herein is, to the best of the manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.**