

# MATERIAL SAFETY DATA SHEET (MSDS)

NAME OF PRODUCT: Grazix™ Porcine - F Natural Digestive Health Solution for Newborn Piglets

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Grazix™ Porcine-F Natural Digestive Health Solution for Newborn Piglets  
**PRODUCT CODES:** ITM-134; ITM-13412

**MANUFACTURED FOR:** LiveLeaf, Inc.  
**ADDRESS:** 1160 Industrial Rd, Ste. 11  
San Carlos, CA 94070

**EMERGENCY PHONE:** 888-510-5568, Ext. 0  
**OTHER CALLS:** 888-510-5568  
**FAX :** 650-508-1875

**DESCRIPTION:** Proprietary meta-extraction of plant materials with vitamin B1  
**PRODUCT USE:** Animal Health Solution Liquid

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**INGREDIENTS:** Contains vitamin B1 and phyto biologic LiveXtract™ derived from (in alphabetical order) - Camellia sinensis (Green Tea) and Punica granatum (Pomegranate).

**CAS NO.:** Camellia sinensis (Green Tea): 84650-60-2  
Punica granatum (Pomegranate): 84961-57-9  
Thiamine Hydrochloride (Vitamin B1): 67-03-8

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** No known level of toxicity but may irritate sensitive mucosal tissues at high concentrations.

**ROUTES OF ENTRY:** Oral

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause burning sensation, redness.

**SKIN:** No adverse effects expected on intact skin. Contact on burn or open wound may cause minor stinging.

**INGESTION:** Ready to use formula; no dilution required.

**INHALATION:** Not expected to be a health hazard under normal conditions.

**ACUTE HEALTH HAZARDS:** None known

**CHRONIC HEALTH HAZARDS:** None known

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known

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**CARCINOGENICITY:** None known

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Rinse immediately with water or saline.

**SKIN:** Not expected to require first aid measures.

**INGESTION:** Not expected to require first aid measures.

**INHALATION:** Not expected to require first aid measures

Title: MSDS, Grazix Porcine - F Natural Digestive Health Solution for Newborn Piglets

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## SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABILITY: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and dispose of in a waste container. Moderate amounts may be flushed to sewer with water.

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Store in a cool, well-ventilated dark area. Protect from freezing. Protect containers from physical damage.

OTHER PRECAUTIONS: Seal tightly.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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None required

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Light yellow to brown color, transparent liquid; slight turbidity.

ODOR: Slight yeast/nut-like odor.

PHYSICAL STATE: Liquid

pH AS SUPPLIED: Approx. 3.0 – 5.0

BOILING POINT: 212°F, 100°C

FREEZING POINT: 32°F, 0°C

SOLUBILITY IN WATER: 100%

PERCENT SOLIDS BY WEIGHT: <1%

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable under ambient temperature; ordinary conditions of use and storage.

**CONDITIONS TO AVOID (STABILITY):** UV Light, Heat; Freezing; Incompatibles

**INCOMPATIBILITY (MATERIAL TO AVOID):** Reducing agents, organic materials, rust, many metals.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Decomposes to water and trace water soluble non-toxic plant material.

**HAZARDOUS POLYMERIZATION:** Will not occur

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** Rat exposure: oral dose level 5000 mg/Kg; result – all animals survived exposure to test material.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** Biodegradable.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose of container and unused contents in accordance with federal, state and local requirements.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Grazix™ Porcine - F  
**HAZARD CLASS:** N/A  
**ID NUMBER:** N/A  
**PACKING GROUP:** Group III: least danger  
**LABEL STATEMENT:** N/A

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Grazix™ Porcine - F  
**HAZARD CLASS:** N/A  
**ID NUMBER:** N/A  
**PACKING GROUP:** Group III: least danger  
**LABEL STATEMENTS:** N/A

### AIR TRANSPORTATION

**PROPER SHIPPING NAME:** Grazix™ Porcine - F  
**HAZARD CLASS:** N/A  
**ID NUMBER:** N/A  
**PACKING GROUP:** Group III: least danger  
**LABEL STATEMENTS:** N/A

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):	N/A
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):	N/A
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	N/A
311/312 HAZARD CATEGORIES:	N/A
313 REPORTABLE INGREDIENTS:	N/A

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## SECTION 16: OTHER INFORMATION

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### OTHER INFORMATION

PREPARATION: None. Ready to Use.

#### Disclaimer:

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