

MATERIAL SAFETY DATA SHEET (MSDS)

NAME OF PRODUCT: Grazix™ Porcine - W Natural Digestive Health Solution for Weaned Pigs

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Grazix™ Porcine - W Natural Digestive Health Solution for Weaned Pigs
PRODUCT CODES: ITM-130; ITM-13006

MANUFACTURED FOR: LiveLeaf, Inc.
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San Carlos, CA 94070

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

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 3: HAZARDS IDENTIFICATION

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

CARCINOGENICITY: None known

SECTION 4: FIRST AID MEASURES

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 - W Natural Digestive Health Solution for Weaned Pigs

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY: N/A

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

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

OTHER PRECAUTIONS: Seal tightly.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

None required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Grazix™ Porcine - W
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 - W
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 - W
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

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

SECTION 16: OTHER INFORMATION

OTHER INFORMATION

PREPARATION: None. Ready to Use.

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