

MATERIAL SAFETY DATA SHEET

Date: March 3, 2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TANDEM ORAL
CHEMICAL NAME: Mixture of Feed Ingredients
CAS NUMBER: N/A

TYPICAL USES: Animal feed supplement

MANUFACTURER: Trouw Nutrition USA, LLC
115 Executive Drive P.O. Box 219
Highland, IL 62249
(618) 654-2070 [USA]

MANUFACTURED FOR: Arthrodynamic Technologies, LLC
Versailles, KY 40383

EMERGENCY CONTACT: (618) 410-8104 (After Hours)

SECTION 2. HAZARDS IDENTIFICATION

Color: Light Red
Appearance: Mixture
Odor: Bland

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects :

Eye: May cause eye irritation.

Inhalation: Breathing dust may cause coughing, sneezing and/or respiratory irritation.

Skin: May cause skin irritation.

Ingestion: Ingestion of this material is not known to result in significant adverse health effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains no chemicals at levels that present a physical or health hazard.

SECTION 4. FIRST AID MEASURES

- Eyes:** Flush eyes with clean, low-pressure water for at least 15 minutes while occasionally lifting eyelids. If irritation persists, get medical attention.
- Inhalation:** Avoid generating dust. No adverse effects anticipated by breathing small amounts during proper industrial handling. If there is difficulty breathing, remove from contaminated area to fresh air and get medical attention if allergic response exhibited.
- Skin:** Wash skin with water, use soap if available. If extensive skin contact occurs, remove contaminated clothing and wash contacted skin with soap and water.
- Ingestion/Swallowing:** No adverse effects anticipated. Rinse mouth and throat thoroughly with tap water. Do not give anything by mouth to an unconscious person.
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SECTION 5. FIRE FIGHTING MEASURES

- Flammable Properties:** Not determined
- Flammable Limits:** Not determined
- Unusual Fire and Explosive Hazards:** Extremely high dust levels in ambient air could support combustion
- Fire Extinguishing Media:** Foam, CO₂, dry chemical or water
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Steps to be taken if material is accidentally released or spilled:** Sweep, scoop or vacuum discharged material. Keep dust to a minimum. Dispose by methods consistent with federal, state and local regulations.
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SECTION 7. HANDLING AND STORAGE

- General Handling Precautions:** Use adequate ventilation and dust collection. Practice good housekeeping.
- Storage Information:** Store in a cool dry location away from incompatible materials.
- Shelf life:** Clumping may occur under humid conditions. Best used within 3 months of manufacture.
- Special Sensitivity:** None known
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Provide ventilation and particulate control to maintain airborne levels below the exposure guidelines of 10mg/m³
- Personal Protective Equipment:** Always recommended
- Eye Protection:** Contact may cause irritation. Use safety goggles and glasses.
- Respiratory/inhalation Protection:** May cause irritation of the nasal membranes or the upper respiratory tract if dust exceeds the nuisance level. Use NIOSH-MSHA approved dust respirator.
- Skin Protection:** Normally no harmful effects. As a general precaution, use gloves.
- Ingestion:** Large amounts may be harmful. Get medical attention.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Red Color
Physical State: Dry Mixture

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.
Material Incompatibility: None Known
Conditions to avoid: Keep dry
Hazardous Decomposition Products: None Known

SECTION 11. TOXICOLOGICAL INFORMATION

Not determined

SECTION 12. ECOLOGICAL INFORMATION

No environmental risk assessment has been made on this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local regulations when disposing of this product. State and local regulations regarding proper disposal may be more restrictive or otherwise different from Federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not a D.O.T. Hazardous Material (49 CFR 172.101). Not regulated
Labeling: Containers of this product need no special warning labels. Only a product identity label is needed.

SECTION 15. REGULATORY INFORMATION

SARA Title III Section 313 Supplier Notification:

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know act of 1986 (40 CFR 372):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent by Weight</u>
Manganese Compounds	NA	0.668

This information must be included in all MSDS's that are copied and distributed for this material

Date: March 3, 2015

SECTION 16. OTHER INFORMATION

Revised: March 3, 2015

Created: June 23, 2011

DISCLAIMER: Trouw Nutrition USA, LLC., makes no warranty, representation or guarantee as to the accuracy, sufficiency, or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity, and suitability of his own use, handling, and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied is made by Trouw Nutrition USA, LLC., as to the effects of such use, the result to be obtained or the safety, toxicity, or environmental effect of this product, nor does Trouw Nutrition USA, LLC., assume liability arising out of the use by others of this product referred to herein. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.