

**MATERIAL SAFETY DATA SHEET (Euro)**

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT CODE: 10288010  
PRODUCT NAME: OPTIMIN® 2X  
CHEMICAL NAME: Mixture of chelated zinc, copper, manganese and cobalt  
SYNONYMS: Proteinated trace minerals  
TYPICAL USES: Animal feed supplement  
MANUFACTURER: Trouw Nutrition USA, LLC  
115 Executive Drive P.O. Box 219  
Highland, IL 62249  
(618) 654-2070 [USA]  
EMERGENCY TELEPHONE NUMBERS: GENERAL OFFICE (800) 255-3582

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Appearance and Odor: A light green powder with a mild grain derivative aroma.  
Boiling Point: NA  
Bulk Density: 31lbs/ft<sup>3</sup>

**SECTION 3. HAZARDS IDENTIFICATION**

Potential Health Effects: For information on health Hazards, call 618/654-7154  
Eye: No hazard expected. Dust may cause eye irritation.  
Inhalation: No hazard expected. Breathing dust may cause respiratory irritation.  
Skin: No hazard expected. Dust may cause skin irritation.  
Ingestion: No hazard expected from swallowing.  
Systemic: None known.

**SECTION 4. FIRST AID MEASURES**

Eyes: Flush eyes with clean, low-pressure water for a least 15 minutes while occasionally lifting eyelids. If irritation persists, get medical attention.  
Inhalation: 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

**SECTION 5. FIRE FIGHTING MEASURES**

Flammable Properties: Flash point – not applicable/available – Non-flammable; Method – Not applicable  
Flammable Limits: Not applicable/available  
Unusual Fire and Explosive Hazards: None  
Other Fire and Explosion Hazards: None  
Fire Extinguishing Media: As appropriate for surrounding material.

**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.

**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: No known limit. Clumping may occur under humid conditions. Use within 2 years recommended.  
Special Sensitivity: None

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Provide ventilation and particulate control to maintain airborne levels below the exposure guidelines of 10 mg per cubic meter.

Eye Protection: Contact may cause irritation. Use safety goggles or 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.

Unusual Chronic Toxicity: None

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: A light green powder with a mild grain derivative odor  
Physical state: Solid  
Bulk Density: 31 lbs/ft<sup>3</sup>  
Stability: Stable

**SECTION 10. STABILITY AND REACTIVITY**

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

Nontoxic at recommended levels - Test results- contains <0.25ng/kg of Dioxin

**SECTION 12. ECOLOGICAL INFORMATION**

Because chelated OPTiMIN®s are more bioavailable than inorganic trace minerals, less environmental pollution would be expected

**SECTION 13. DISPOSAL CONSIDERATIONS**

Not considered a hazardous waste under Federal Hazardous Waste Regulations (40 CFR 261). Consult state and local regulations regarding proper disposal as they may be more restrictive or otherwise different from Federal regulations.

Steps to be taken if material is released or spilled: Sweep, scoop or vacuum discharged material. Keep dust to a minimum. Dispose by methods consist with federal, state and local 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**

U.S. Federal Regulations  
FDA/USDA: Follow current Good Manufacturing Practice (cGMP).

International Regulations  
Approved under European Regulations No. 2316/98 (26 October 1998)

State Regulations  
There are no known additional requirements necessary for compliance with states regulations.

**SECTION 16. OTHER INFORMATION**

Caution: Do NOT get into eyes. Use adequate ventilation. Wash thoroughly after handling.

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Prepared by: Regulatory Affairs Department – (618/654-2070) [USA]



a nutreco company

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