

# Material Safety Data Sheet

**VIGOREX**®

Date of Preparation: 05/11/08

**MSDS No. 0072**

Review: 0003

Date of review: June 14, 2009

# Vigorex

COMPLEJO NUTRICIONAL SISTÉMICO

**BIOESTIMULANT AND CROP VIGOR  
PROMOTOR**

**MSDS**

# Material Safety Data Sheet

VIGOREX®

Date of Preparation: 05/11/08

MSDS No. 0072

Review: 0003

Date of review: June 14, 2009

## Product Identification

**Product Name:** VIGOREX®

**Chemical Name:** Bioestimulant and crop vigor promoter. It is a blend of macro and microelements, plant growth aminoacids, hormones and vitamins.

**General Use:** Fertilizer and plant growth promoter

## Composition / Information on Ingredients

<u>Ingredient</u>	<u>Percentage</u>	<u>Ingredient</u>	<u>Percentage</u>	<u>Ingredient</u>	<u>Percentage</u>
Nitrogen	7.00 %	Cytokin	2,060ppm	Auxines	250 ppm
Phosphorous	7.00 %	Molybdenum	0.0003 %	Gibberellins	125 ppm
Potassium	7.00 %	Organic Solution	84.00%	Humic Acid	5.00%

## Physical Data

**Boiling Point:** 91° C

**Melting Point:** <0° C

**Freezing Point:** <0° C

**Specific Gravity (25° C):** 1.2 grs./ml.

**Vapor Pressure (@ 20° C):** ~20 mmkg

**Vapor Density:** .017 Kg/m<sup>3</sup>

**Partition Coefficient:** ND

**Solubility in Water:** 100% W/gr

**Appearance and Odor:** black liquid, no odor

**pH:** 5.5

## Fire & Explosion Data

**Flash Point (Method):** Not flammable

**Flammable Limits (Vol. % en air):** Not flammable

**Auto ignition temperature:** Not flammable

**Extinguishing Media:** Product is not flammable

**Special Firefighting Procedures:** Not applicable.

**Unusual Fire and Explosion Hazards:** Not applicable

## Reactivity Hazard Data

**Stability:** Stable at normal conditions

**Conditions to avoid:** Hot alkaline solutions

**Incompatibility:** Reacts with strong oxidizing agents

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition Products:** Under fire or hot alkaline conditions.

## Health Hazard Data

**Inhalation:** Excessive exposure to dust in unventilated areas may cause respiratory irritation.

**Eye Contact:** Will cause extreme irritation.

**Skin Contact:** Can cause extreme irritation.

**Ingestion:** Based on similar substances this substance is believed to be practically non-toxic by ingestion.

**Chronic Effects of Overexposure:** May cause inflammation of respiratory tract, dermatitis, or ulceration.

**Other Toxic Effects:**

**LD50:** Based on LD50 of components, the LD50 is > 1000mg/Kg

## Emergency and First Aid Procedures

**Ingestion:** Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of water or milk. Seek medical attention.

# Material Safety Data Sheet

VIGOREX®

Date of Preparation: 05/11/08

MSDS No. 0072

Review: 0003

Date of review: June 14, 2009

**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Wash clothing before reuse.

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, holding eyelids apart to irrigate thoroughly. Washing eyes within several seconds is essential to achieve maximum effectiveness. Consult physician if irritation persists.

**Inhalation:** Remove to fresh air. Consult physician. If not breathing, give artificial respiration.

**Note to Physician:** Test symptomatically and supportively.

## Special Protection Information

**Protective clothing:** Butyl Rubber or PVC gloves.

**Eye Protection:** Chemical goggles or safety glasses with side shields.

**Ventilation:** Mechanical.

**Respiratory Protection:** Use NIOSH/MSHA approved dust respirator if ventilation is not sufficient.

**Other:** Eye wash, neoprene protective type apron.

## Spill or Leak Procedures

**Steps to be Taken in Case Material is released or Spilled:** Wear suitable protective clothing. Sweep up excess. Wash thoroughly with water. Keep away from ignition sources.

**Waste Disposal Methods:** Dispose of in accordance with all applicable federal, state and local regulations.

## Special Precautions

**Precautions to be Taken in Case Material is Handling and Storing:** Store in original, sealed container in cool, ventilated area. Protect from freezing or overheating. Avoid open flames and sparks. Keep in secured area, away from children and unauthorized people.

## Additional Regulatory Information

**DOT Hazard Class:** Not Regulated

**Hazardous Substance:** Not Health Hazardous

**EPA SARA Title III Data:** This product does not contain toxic chemicals listed on SARA Section 313 Community Right to Know or Toxic release Inventory. All components of this product are listed on the TSCA inventory.

## Other Information

**Prepared by:**

**Revision Notes:**

**Disclaimer:** Reasonable care has been taken in preparation of this information. The information contained herein is based on the data available to us and is believed to be correct as of the date prepared; however, ExcelAg Corp. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.