

Material Safety Data Sheet
Knox Fertilizer Company, Inc.

SECTION 1

PRODUCT IDENTIFICATION

TRADE NAME: *Gro-Gard[®] WP and Gro-Gard[®] SG*

EPA REGISTRATION NO: Not Regulated by EPA
CHEMICAL NAME/SYNONYMS: Amino Acids
CHEMICAL TYPE: Plant Growth Promoter

MANUFACTURER/FORMULATOR: Knox Fertilizer Co., Inc
P.O. Box 248
Knox, IN 46534
EMERGENCY PHONE: 1.800.424.9300

SECTION 2

COMPOSITION/INFORMATION ON INGREDIENTS

Gro-Gard is a proprietary blend of naturally occurring amino acids, proteins, and adjuvants.

SECTION 3

HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

Eye Contact: Redness, clearing within 24 hours.
Skin Contact: Essentially non-irritating.
Skin Absorption: Not normally absorbed through the skin.
Ingestion: Not acutely toxic by ingestion.
Inhalation: Not acutely toxic by inhalation.

POTENTIAL CHRONIC HEALTH EFFECTS: None known.

SECTION 4

FIRST AID MEASURES

EYES: Flush eyes with water, including under upper and lower lids, for at least 15 minutes. Get medical attention if pain or irritation persists.
SKIN: Wash thoroughly with water. Obtain medical advice if rash develops.

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂, Water.
SPECIAL FIRE FIGHTING PROCEDURES: Normal fire-fighting procedures may be used.
UNUSUAL FIRE & EXPLOSION HAZARDS: No special hazards known.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Small Spill: Sweep up and use per label directions, if non-contaminated.

Large Spill: Collect with appropriate equipment. If on a hard surface, sweep up residues with a broom.

Release Notes: Non-toxic to aquatic organisms.

SECTION 7**HANDLING AND STORAGE**

Store in a cool, dry, well-ventilated area. Separate from fertilizers and pesticides to prevent cross contamination. Use normal safety procedures and good personal hygiene. Keep out of the reach of children, preferably in a locked storage area.

SECTION 8**EXPOSURE CONTROL/PERSONAL PROTECTION**

PERSONAL PROTECTION (PPE): Applicators and other handlers should wear:

- Long sleeve shirt and long pants
- Shoes plus socks
- Protective eyewear

Follow manufacturers instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and store PPE separately from other laundry.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: White to beige powder or granules.

SOLUBILITY IN WATER: Soluble

ODOR: Moderate aroma of amino acids

BULK DENSITY: 30 lbs./cu ft.

SECTION 10**STABILITY AND REACTIVITY**

STABILITY:

Stable

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known

SECTION 11**TOXICOLOGICAL INFORMATION**

All product components are listed as GRAS (Generally Recognized As Safe).

TOXICOLOGICAL DATA:

Acute Oral Toxicity (LD₅₀): >5,000 mg/kg (rat)

Acute Dermal Toxicity (LD₅₀): >5,000 mg/kg (rabbit)

Effects of Chronic Exposure: None known

Skin Sensitization: Not expected to produce skin sensitization.

CARCINOGENICITY: Not listed as a carcinogen

Not teratogenic, mutagenic, or a reproductive toxicant

SECTION 12**ECOLOGICAL INFORMATION**

None Listed

SECTION 13**DISPOSAL CONSIDERATIONS**

PRODUCT DISPOSAL: Uncontaminated product may be used per label directions. Otherwise, dispose according to Federal, State or local regulations.

CONTAINER DISPOSAL: Completely empty package into application equipment then dispose of empty package in accordance with all Federal, State and local regulations. DO NOT reuse any part of the packaging.

SECTION 14**TRANSPORT INFORMATION**

DOT SHIPPING DESCRIPTION: Not regulated
LABELS REQUIRED: None
PLACARDS REQUIRED: None

SECTION 15**REGULATORY INFORMATION****SARA TITLE III****SEC 311/312:**

N Immediate (Acute Health)
N Delayed (Chronic Health)
N Fire
N Sudden Release of Pressure
N Reactivity

SEC 302: Not Applicable
SEC 304: Not Applicable
SEC 313: Not Applicable
CERCLA RQ: Not Applicable
CAA RQ: Not Applicable

National Fire Protection Association (NFPA) Ratings:

Health: 1 **Fire:** 0 **Reactivity:** 0 **Specific:** none

SECTION 16**OTHER INFORMATION**

Issue Date: 19 APR 2011
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