

Material Safety Data Sheet

Trade Name: **VERSA MAX Corn**

Dated: **04.25.11 – Supercedes _____**

Registration No: **None**

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: Rosen's Inc. Product Name: **VERSA MAX Corn**
Common Name: **8-0-0-3(S)**
Chemical Type: **Inorganic Chemical Fertilizer**

Telephone: Rosen's local #1-800-792-2000
Emergency Phone – Rosen's Emergency #
24- Hour Emergency Telephone Chemtrec 1-800-424-9300

SECTION 2 COMPOSITION INFORMATION

Chemical Ingredients:	Percentage by Weight:	CAS No.
Total Nitrogen (N)	8.00	Mixture
Sulfur (S)	3.00	Mixture as Sulfate
Zinc (Zn)	3.00	Mixture
Iron (Fe)	1.00	Mixture
Manganese (Mn)	2.00	Mixture

Micro ingredients: Zn, Fe & Mn, derived from fertilizer salts and inert ingredients

SECTION 3 HAZARDOUS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – May be harmful if swallowed, inhaled or absorbed through skin. May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid contact with open cuts or sores. Avoid breathing vapors. Use with adequate ventilation. Eye protection and gloves are suggested when handling undiluted product. Wash thoroughly after handling and using this product. In case of contact, flush with water. Get medical attention for eyes. This blended liquid fertilizer additive is derived from: Ammoniacal Nitrogen, Zinc Oxide, Ferrous Oxide, Manganese Oxide and various Sulfate salts. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Shielded safety glasses for eye protection are recommended.

SECTION 4 FIRST AID MEASURES

If in eyes: Immediately flush eyes with plenty of water. Continue flushing for at least 15 minutes and call a physician if Irritation persists.

If on skin: Flush affected skin with water. Remove all contaminated clothing, Launder clothing before reuse.

If inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if indicated.

If swallowed: Drink plenty of water if conscious. Call a physician or poison control center immediately for advice on inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Does not flash.

FLAMMABLE LIMITS (LFL & UFL): Not established.

EXTINGUISHING MEDIA: Considered non-combustible. Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon and oxides of sulfur, ammonia, and oxides of nitrogen.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may burst due to pressure build-up of aqua ammonia.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Ventilate area. Contain spill, absorb liquid with clay or other absorbent material. Sweep up material and place in container for possible land application according to label use of for proper disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 7 HANDLING AND STORAGE

HANDLING: Open the container carefully. Contents may be under pressure and have a distinct odor of ammonia. Eye protection and gloves are suggested when handling undiluted product. Use with adequate ventilation.

STORAGE: Store in original containers only. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. Store in a cool, dry, well-ventilated place, preferably in a locked storage area. Store out of direct sunlight. Product may suspend in layers if stored below 20°F. Do not contaminate water, food, or feed by storage or disposal.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required. If ammonia odor is too strong, use local or mechanical ventilation.

RESPIRATORY PROTECTION: Not normally required. If ammonia vapors are too strong, wear a NIOSH approved respirator for anhydrous ammonia.

EYE PROTECTION: Shielded safety glasses should be worn.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes plus socks. Wear rubber or chemical-resistant gloves

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Ammonia	35 mg/m ³	17 mg/m ³

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear dark tea-colored liquid with slightly sweet, non-offensive odor. **SOLUBILITY:** Soluble

SPECIFIC GRAVITY (Water = 1): 1.28-1.30 g/ml **BULK DENSITY:** 10.7-10.9 lbs/gal. **pH:** 8.8

VAPOR PRESSURE: Not established. **BOILING POINT:** 212°F / 100°C

PERCENT VOLATILE (by volume): Not established. **EVAPORATION RATE:** Not established.

Note: These physical data are typical values based on material tested, but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable.

Conditions to Avoid: Excessive heat. Keep containers tightly closed.

Incompatibility (Material to Avoid): Strong oxidizers.

Hazardous Decomposition Products: May include but are not limited to oxides of carbon and oxides of sulfur & ammonia.

Hazardous polymerization: Will not occur.

SECTION 11 TOXICOLOGY INFORMATION

Acute Oral LD₅₀ (rat): Ammonia: 350 mg/kg **Acute Dermal LD₅₀ (rabbit):** Not established.

Eye Irritation (rabbit): Causes mild irritation **Skin Irritation (rabbit):** Causes mild irritation.

Inhalation LD₅₀ (rat): 2000 ppm (4hr) **Skin Sensitization (guinea pig):** Not established.

Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

SECTION 12 ECOLOGICAL INFORMATION

Material is toxic to fish and other aquatic organisms.

Do not contaminate water supplies.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to www.acrecycle.org for locations) or dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

SECTION 14 TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT

Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)
Consult appropriate ICAO/IAA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

SECTION 15 REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

1 Health 0 = Least
0 Flammability 1 = Slight
1 Instability 2 = Moderate
3 = High
4 = Severe

HMIS

1 Health
0 Flammability
1 Reactivity
H PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Ammonia (CAS: 7664-41-7) 100 pounds

SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7)

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

SECTION 16 OTHER INFORMATION

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Reviewed by: Michael L. Orr Date: 3/25/2011