

Manufactured for: Rosen's, Inc. P.O. Box 933 Fairmont, MN 56031

Emergency:

800-424-9300

Information:

800-792-2000

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816-781-7161

SECTION 1

CHEMICAL PRODUCT IDENTIFICATION

Product Name:

Versa Max All Crops

Chemical Description:

Chelated solution derived from soluble Iron, Manganese and Zinc.

Synonyms/Other: TSCA/CAS#:

Liquid Blended Fertilizer with Chelated Micronutrients. This product is a mixture – there is no specific CAS number.

MSDS CODE:

11021

Product Use: Preparation/Revision Date: Plant micronutrient

01/15/2013

Date	of F	irst	ssue
Revis	ion	Dat	٥.

January 09, 2013

January 15, 2013

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Revision No.: Changes: Section 16

SECTION 2

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

No significant immediate hazards for emergency response are known.

Appearance and odor: Clear dark tea-colored liquid with a slightly sweet odor.

POTENTIAL HEALTH EFFECTS (see section 11 for additional information) Primary Route(s) of Exposure: Eye contact, skin contact and inhalation.

Acute Exposure

Eye Contact:

Eye contact may cause mild irritation.

Skin Contact:

Skin contact may cause slight irritation.

Inhalation:

Exposure to an excessive concentration of vapor, mist or aerosol may cause

Ingestion:

respiratory tract discomfort and/or irritation. This product has a low order of acute toxicity.

Chronic Exposure:

Avoid repeated exposure.

Carcinogenicity:

This product does not contain any carcinogens or potential carcinogens as

listed by IARC, NTP, ACGIH or OSHA.

Medical conditions

Aggravated:

No data available.

POTENTIAL ENVIRONMENTAL

EFFECTS:

(See Section 12 for additional information) This product is not considered to be

harmful to aquatic life, based on available data.



SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS

% (w/w)

CAS Number

Proprietary Mixture [See product label for derivation and guaranteed analysis]

SECTION 4

FIRST AID MEASURES

Although this product is not considered a hazardous material, the following measures are generally recommended following human exposure to chemical products.

Eye Contact:

Check for and remove contact lenses. Flush immediately with copious amounts of water or normal saline (minimum of 15 minutes), holding eyelids apart to ensure complete irritation of the eye and eyelid tissue. Take exposed individual to a health care professional, preferably an opthalmologist, for further

Skin Contact:

Remove contaminated clothing, shoes and equipment. Wash exposed area with plenty of soap and water. Repeat washing. If redness or irritation occurs, seek

medical attention. Wash contaminated clothing before reuse.

Inhalation:

No adverse effects anticipated. If necessary, remove victim to fresh air and

loosen clothing. Get medical attention.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention

immediately.

Note to Physician:

Attending physician should treat exposed patients symptomatically.

SECTION 5

FIRE FIGHTING MEASURES

Flash Point:

Flammable Limits:

Not applicable. Not applicable.

Autoignition

Temperature:

Not determined

Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire-exposed containers, to dilute liquid, and control vapor.

Firefighting

Constal suidelines as this sect of the section of vapor.

Procedures:

General guidelines as this material won't burn without driving off water: Not considered to be a fire hazard.

Evacuate area and fight fire from a safe distance.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual Fire & Explosion Hazards:

This solution is not considered to be an explosion hazard.

Byproducts of Combustion:

Thermal decomposition products may release toxic and/or hazardous fumes and gases, including nitrogen oxides, carbon oxides and metal oxide fumes.

Explosion Data:

Not determined. This solution is not considered to be an explosion hazard.

NFPA 704 Hazard

Rating -

Health: 1

Fire: 0 Instability: 0

ty: 0 3-Hiah Other: None

[0-Minimal

1-Slight

2-Moderate

4-Extremel

Issue date: 15-Jan-13

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SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill/Leak:

Wear appropriate personal protective equipment. Safely stop source of spill. Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Restrict non-essential personnel from area. Spill or leak residuals may have to be collected and disposed of. Clay, soil or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product.

Cleanup:

Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under RCRA. Check the characteristic of used, spill or leak material to be disposed of to verify RCRA exempt.

SECTION 7

HANDLING AND STORAGE

Handling Procedures:

Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return totes to reclamation centers for proper cleaning and reuse. Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc. Wash thoroughly after handling.

Storage Procedures:

This material is suitable for any general chemical storage areas. Isolate from

food or feed. Store in PVC, PE, stainless steel or bitumized tanks.

Additional Information:

Containers should not be opened until ready for use. It is recommended that products be retested if stored more than 2 years. Under ideal storage

conditions, the shelf-life is almost indefinite.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Eye Protection:

There are no known exposure limits applicable to this product or its components. Eye protection is strongly recommended. If material is handled such that it could be splashed into the eyes, wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Skin Protection:

Wear impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.

Respiratory Protection:

Use of respiratory protection is generally not required. However, if use conditions generate vapor, mist or aerosol and adequate ventilation (e.g., outdoor or wellventilated area) is not available, use a NIOSH-approved organic vapor respirator with mist and fume filters to reduce potential for inhalation exposure.

Ventilation System:

Special ventilation is usually not required under normal use conditions. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specifed exposure. Eyewash stations and showers should be available in areas where this material is used and stored.

Other:

Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or

smoking.



SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical State / Appearance / Odor:

Bulk Density: Cloud Point:

Crystallization Point:

Melting Point: Evaporation Rate (Butyl Acetate=1):

Odor Threshold:

pH:

Pour Point:

Solubility in water:

Specific Gravity (H2O=1):

Vapor Density (Air=1): Vapor Pressure:

Viscosity: Volatiles (% by weight):

Other - Decomposition temperature:

Conditions of Flammability: Flash Point (Method):

Upper Flammable Limit (% by volume): Lower Flammable Limit (% by volume):

Auto-Ignition Temperature:

clear dark tea-colored, sweet odor not applicable

not determined 0°F (-17°C) not applicable

not determined not determined 8.75 - 9.50 (neat)

not determined completely miscible ~1.29 g/ml

same as water same as water not determined not determined

>392°F / >200°C (solid); >212°F / >100°C (water loss)

not flammable or combustible

not applicable not applicable not applicable not applicable

Avoid prolonged storage at elevated temperatures.

< : less than > : greater than ~: approximate

SECTION 10

STABILITY AND REACTIVITY

Stability:

This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

Incompatibilities:

Hazardous

Decomposition

Products:

Under fire conditions the product may support combustion and decomposes to give off carbon oxides fumes (CO, CO₂), nitrogen oxides and water vapor.

Hazardous

Polymerization:

Will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

Oral Toxicity: Dermal Toxicity: Not determined. Not determined.

Inhalation Toxicity:

Not determined.

Dermal Sensitization:

Prolonged or repeated contact may make skin more sensitive to other skin

sensitizers.

Chronic Toxicity:

Not determined.

Carcinogenicity:

The known components of this material are not listed by IARC, NTP, OSHA or

ACGIH as known or suspected carcinogens.

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Mutagenicity:

Reproductive Toxicity:

Other:

Not determined.

Not determined. Not applicable.



SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity:

Not determined.

Chemical Fate:

The substance is not expected to enter the atmosphere due to its high water

solubility.

Biodegradation:

Not determined.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal:

It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. Dispose in accordance with all

federal, state, and local laws.

NOTE - State and local regulations may be more stringent than federal

regulations.

Container Disposal:

Containers should be cleaned of residual product before disposal or return. Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be disposed of or shipped

in accordance with all applicable laws and regulations.

Other:

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal,

state, and local regulations.

SECTION 14

TRANSPORT INFORMATION

Shipping Information:

Not regulated for transport.

Required Labels:

No transport label required.

Environmentally Hazardous Substances [49 CFR 172.101,

Appendix A]:

None

Other Shipping Description:

Fertilizing Compounds (Manufactured), Liquid.

NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15

REGULATORY INFORMATION

The components are subjected to the following environmental regulatory lists:

CERCLA: None

111,000,100

SARA TITLE III, Section 313 Toxic Chemicals: Zinc compounds (2.0%) Manganese compounds (2.0%).



SECTION 16

OTHER INFORMATION

HMIS RATING – Health: 1 Flammability: 0 Physical Hazards: 0 Other: none

[0 – Minimal 1 – Slight 2 – Moderate 3 – High 4 – Extreme - Chronic Health Hazard (see Section 11)]



NFPA (USA) - Health: 1 Flammability: 0 Reactivity: 0 Specific Hazard: 1 - Slight 2 - Moderate 3 - High 4 - Extreme]



External Information:

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used Rosen's, Inc. must rely upon information provided by those materials manufacturers or distributors.

Prepared by:

[Regulatory Department]

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 not do we offer warranty against patent infringement.

Revisions / Comments: