

MATERIAL SAFETY DATA SHEET

MANUFACTURED BY:
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1. PRODUCT IDENTIFICATION

PRODUCT TRADE NAME: Campo Verde MGN Liquid 5
Zeta plex Mn/Mg

CHEMICAL FAMILY: metallic salts

FORMULA: N/A

SYNONYMS: trace element mixture

CAS NUMBER: Formulated mixture

DATE PREPARED: June 06,2006

National Fire Protection Association Rating

Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum

Health 1

Flammability 0

Reactivity 1

2. INGREDIENTS AND HAZARDS

HAZARD CLASSIFICATION: IRRITANT

COMPOSITION CAS REGISTRY NO

Manganese sulfate 10034-96-5

Magnesium sulfate 7487-99-9

Citric acid anhydrous 72-92-9

3. PHYSICAL DATA

APPEARANCE: Reddish liquid

ODOR: Bland

SPECIFIC GRAVITY: 1.31

BOILING POINT: N/A

FREEZING POINT: 15° F

BULK DENSITY: N/A

SOLUBILITY IN WATER: Complete

pH: 2.6 –2.8 in distilled water

VOLATILES: None

NA = NOT APPLICABLE

4. FIRE AND EXPLOSION DATA

FLASH POINT, F, COC: None

FLAMMABLE LIMITS: Not established

AUTO IGNITION TEMPERATURE: Not established

EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide.

FIRE & EXPLOSION HAZARD: Firefighters should use self-container breathing apparatus to avoid exposure to smoke and vapor..

FIRE & EXPLOSION HAZARD: None known.

SPECIAL PROCEDURES: None known.

5. REACTIVITY DATA

STABILITY:

Product is stable.

INCOMPATIBILITY:

none known.

DECOMPOSITION PRODUCTS:

Product would not be expected to burn.

HAZARDOUS POLYMERIZATION:

Will not occur.

6. HEALTH HAZARD DATA

ROUTES OF EXPOSURE: Inhalation, ingestion, eyes, and skin.

SYMPTOMS

Refer to Section 2

FIRST AID

INHALATION: Remove to fresh air.

EYES: Irrigate immediately with water for at least 5 minutes. Consult physician if irritation persists.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effect anticipated by this route of exposure incidental to proper industrial handling. Accidental ingestion of copious quantities or appearance of symptoms noted in Section 2, contact a physician prior to taking any medical action.

NOTE TO CARE AID ATTENDANTS: Provide supportive care, consult and have available MSDS sheet and make said information known and available to attending medical support personnel.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

ACTION TO TAKE FOR SPILLS/LEAKS: Contain spills by diking with dirt, sand or other absorbent material. Rope off area to prevent inadvertent spread of spill. Place leaking containers in overpak containers or transfer material to clearly marked new containers. Upon discovery of leak or spillage, notify proper supervisory personnel and if situation warrants, notify the proper Local or State hazardous waste response units prior to taking any action other than initial emergency response. All materials used to absorb leak or spill should be handled and disposed of in accordance to Local, State and Federal environment laws. Workers performing clean-up duties should be made aware of any potential health hazards and must wear the correct protective clothing and devices needed to perform the duties in a safe proper manner.

PRODUCT DISPOSAL: Excess product that cannot be used without violating label instructions must be disposed of in a manner that is in full compliance of Local, State and Federal laws.

CONTAINER DISPOSAL: Check with Local and State authorities for proper disposal prior to offering for recycling, incineration or sanitary land fill. Containers sent to local land fills should be triple rinsed, punctured and crushed prior to disposal.

HANDLING & STORAGE: Keep from freezing.

8. CONTROL MEASURES

RESPIRATORY PROTECTION:

Not required

VENTILATION:

No special requirements

PROTECTIVE GLOVES:

Chemical resistant rubber gloves

EYE PROTECTION:

Chemical protective eye wear.

WORK/HYGIENIC PRACTICES:

Avoid contact with eyes, skin, clothing. Wash thoroughly after handling.

9. REGULATORY STATUS

TRANSPORTATION INFORMATION: This material is classified as non-hazardous under Department of Transportation regulations.

SARA Title III:

311/312 Hazard Categories: Non-Hazardous

313 Reportable ingredients: None