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MATERIAL SAFETY DATA SHEET

=====SECTION I – TRADE NAME ON LABEL=====

PRODUCT NAME: ETHYLENE GAS GUARDIAN (E.G.G.)

=====SECTION II – DEPARTMENT OF TRANSPORTATION INFORMATION=====

Proper shipping name: Natural zeolite, clinoptilolite

ID number: not regulated by DOT

Export information: Harmony 3824.91.90.50

Classification: Prepared binders for foundry molds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included

Notice: Ethylene Gas Guardian contains 1 -2 % manganese compounds (CAS Reg. No. N/A) as part of a mixture and is subject to the reporting requirements of Section 313 of Title IIOI Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

=====SECTION III – MATERIAL IDENTIFICATION AND INFORMATION=====

<u>Material or Component</u>	<u>CAS No.*</u>	<u>%</u>	<u>Hazard Data</u>
Potassium Permanganate KMnO4	7722-64-7	4-6%	PEL**C**** 5mg Mn per cubic meter of air TLV-TWA***5mg Mn per cubic meter of air
Natural Zeolite (Clinoptilolite)	12173-10-3	94-96%	PEL 10 mg per cubic meter of air total dust 5 mg per 5 mg per cubic meter of air respirable dust.
TOTAL		100%	TLV-TWA 10 mg zeolite per cubic meter of air

* Chemical abstract service number

** OSHA permissible exposure limit, manganese compounds (expressed as Mn)

*** American Conference of Governmental Hygienists, 1988/1989, TLV-TWA-the time weighted average concentration for a normal 8 hour workday and a 40 hour work week, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.

**** Ceiling Exposure Limit or maximum exposure concentration not to be exceeded under any circumstance.

=====SECTION IV – SAFE USAGE DATA=====

Protective equipment types	<i>Eyes:</i> goggles or glasses recommended <i>Respiratory:</i> treat as a low level nuisance dust, use NIOSHMSA #TC-21C-132 <i>Other:</i> rubber or plastic gloves
Ventilation	<i>General mechanical:</i> yes <i>Local exhaust:</i> if dusting excessive
Precautions	<i>Handling & Storage:</i> store in cool dry area in closed containers. <i>Other:</i> Do not eat, avoid contact with eyes and skin

=====**SECTION V – EMERGENCY RESPONSE DATA**=====

Fire *Extinguishing media:* Ethylene Gas Guardian is not flammable.
Special Procedures: None
Unusual Hazards: None

Exposure *First Aid measures:* Dust inhalation, move to fresh air. Ingestion: seek medical attention
Skin contact: wash area. Eye contact: flush with large quantities of water, seek medical attention.

Spills *Steps to be taken:* Sweep up granules, flush floors with water into sewer, if permitted by federal, state and local regulations.

=====**SECTION VI – PHYSICAL HAZARD DATA**=====

Flammability LFL: N/A Flash Point: N/A
 UFL: N/A Methods used:
 Stable: X Conditions to avoid: None
 Unstable: Hazardous Decomp Pots: Diluted KMnO4 solution when wetted

Hazardous Polymerization: May occur Will not occur: X Conditions to avoid: None

Incompatibility media *Material to avoid:* Protect from water and exposure to contaminated air otherwise may be rendered useless. Strong acids, oxidizable matter or reducing matter.
Hazardous Decomposition or byproducts: In contact with hydrochloric acid, toxic chlorine gas will evolve.

=====**SECTION VII – HEALTH HAZARD DATA**=====

Health Hazard *Acute:* May be irritating to open wounds, burns and mucous membranes.
Chronic: Prolonged inhalation of manganese compounds above the threshold limit value may cause lung irritation and central nervous system disorders.

Carcinogenicity NTP: Not listed IARC Monographs: Not listed. OSHA Regulated: Not listed.


Emergency and First Aid Procedures:
Eyes: Immediately wash with large amounts of water for 15 minutes.
Skin: Immediately wash with soap and water.
Inhalation: Move person out of contaminated area.
Ingestion: Give several glasses of water or milk, if available. Seek medical attention.

=====**SECTION VIII – PHYSICAL & CHEMICAL PROPERTIES**=====

Boiling Point: N/A Vapor Density (Air = 1): N/A Volatile Components: N/A
 Vapor Press: N/A pH: N/A Solubility in H2O: partially soluble
 Evaporation Rate: N/A Appearance: Purple granules Odor: No significant odor

=====**SECTION IX – SUPPLIER DATA**=====

Firm name and mailing address
 WayChem, Inc.

Name: Tommy J. Wagner
 Signature: 

84 Allegiance Circle
 Evanston, WY 82930

Title: Managing Director
 Date: December 5, 2005

Phone number: (800)733-6605 or (307)444-2000