



Terra Novo, Inc. EarthGuard

MATERIAL SAFETY DATA

Revision Date: 10/3/2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: EarthGuard

COMPANY: Terra Novo, Inc.,
2930 Patton Way
BAKERSFIELD, CA 93308, USA

TELEPHONE: 661.587.5716
EMERGENCY PHONE: CHEMTREC 800.424.9300

PRODUCT USE: Processing aid for industrial application

2. HAZARDS IDENTIFICATION

Appearance and Odor:

Form: Viscous liquid

Color: Milky

Odor: Aliphatic

Potential Health Effects:

Eye: May cause eye irritation with susceptible persons.

Skin: Slightly irritating.

Potential Physical/Chemical Effects: Spills produce extremely slippery surfaces.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification: Anionic water-soluble polymer in emulsion.

Regulated Components: None.

4. FIRST AID MEASURES

Inhalation: Move to fresh air immediately. No hazards which require special first aid measures.

Skin contact: Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.



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Ingestion: Rinse mouth with water. Do not induce vomiting. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

Precautions: Spills produce extremely slippery surfaces.

Special protective equipment for firefighters: No special protective equipment required.

Flash point (°C): Does not flash.

Autoignition temperature (°C): Does not ignite.

Flash point : Not applicable.

Autoignition temperature (°C): Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No special precautions required. Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection). Keep people away from spill/leak.

Environmental precautions : As with all chemical products, do not flush into surface water.

Methods for cleaning up : Do not flush with water. Dam up. Soak up with inert absorbent material. If liquid has been spilled in large quantities, clean up promptly by scoop or vacuum. Keep is suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Avoid contact with skin and eyes. When preparing the working solutions ensure there is adequate ventilation. When using do not smoke.

Storage

Keep in a cool, dry place (0 - 30 °C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures



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Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protective equipment

Respiratory protection : Not required ; except in case of aerosol formation

Hand protection : PVC or other plastic material gloves

Eye protection : Safety glasses with side-shields. Do not wear contact lenses where this product is used.

Skin and body protection : Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Viscous liquid

Color : Milky

Odor : Aliphatic

pH: 6 - 8 @ 5 g/l

Specific Gravity: 1.05

Melting point/range : Not applicable

Flash point : Not applicable

Autoignition temperature (°C): Not applicable

Vapor pressure (mm Hg): 0,002 @ 20°C

Bulk viscosity (cps): 1200

Kinematic viscosity @ 40°C (mm²/s): >>20.5

10. STABILITY AND REACTIVITY

Stability : Hazardous polymerization does not occur. Stable.



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Materials to avoid : Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products : Thermal decomposition may produce. Nitrogen oxides (NO_x).

Carbon oxides (CO_x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral : LD50/oral/rat > 5000 mg/kg.

Dermal : LD50/dermal/rat > 5000 mg/kg.

Inhalation : The product is not expected to be toxic by inhalation.

Irritation

Skin : Slightly irritating

Eyes : May cause eye irritation with susceptible persons

Sensitization :

Not sensitizing.

Chronic toxicity :

No Chronic effects

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Toxicity to fish : LC50/Danio rerio (Zebra fish)/96 hours > 100 mg/L (OECD 203)./96 hours > 100 mg/l, (OECD 203).

Toxicity to daphnia : EC50/Daphnia magna (Water flea)/48 hours > 100 mg/L (OECD 202).

Toxicity to algae : EC50/Scenedesmus subspicatus (Green algae)/72 hours > 100 mg/L (OECD 201).

Persistence and degradability : Not readily biodegradable.

Hydrolysis : Does not hydrolyze.



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13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of in accordance with local, state and federal regulations.

Container : Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT

Remarks : Not classified as dangerous in the meaning of DOT regulations.

IMDG/IMO

Remarks : Not classified as dangerous in the meaning of IMO/IMDG regulations.

ICAO/IATA

Remarks : Not classified as dangerous in the meaning of ICAO/IATA regulations

15. REGULATORY INFORMATION

US SARA Reporting Requirements:

SARA (Section 311/312) hazard class: Not concerned.

International Inventories USA (TSCA): All components of this product are either listed on the inventory or are exempt from listing.

Canada (DSL) : All components of this product are either listed on the inventory or are exempt from listing.



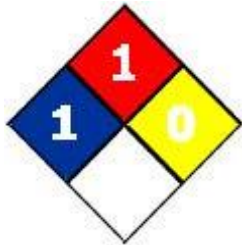
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16. OTHER INFORMATION

NFPA and HMIS Ratings :



NFPA :

Health : 1 Flammability : 1 Instability : 0

HMIS :

Health : 1 Flammability : 1 Physical Hazard : 0 **MSDS was prepared in accordance with the following :**

ISO 11014-1: Material Safety Data Sheet for Chemical Products ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

Contact : 661.587.5716

The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.