

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

| | |
|---|---|
| Product name | EcoSeal Outdoor/ ZTAC |
| Synonyms | |
| Chemical characterization | Inert nano polymers and nano metal oxides fusion with water |
| Manufacturer, importer, supplier | EcoSeal, Inc./ EST, INC. DUNS 604-17-9080 2360 Corporate Circle, Suite 400 Henderson, NV 89074-7739 |
| EMERGENCY TELEPHONE NUMBER | 1-800-222-1222 |

2. COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % Weight | ACGIH TWA | Acute Toxicity | IARC* | NTP* | OSHA* |
|-------------|---------------------------------------|----------|-----------|----------------|-------|------|-------|
| 7732-18-5 | Hydrogen Hydroxide | <48% | | | No | No | No |
| 34346-01-5 | Polymeric Nano Particles Fusion | <36% | | | No | No | No |
| Proprietary | Anti-rust additive | <18% | | | No | No | No |
| Proprietary | Anti-static additive | <8% | | | No | No | No |
| 13463-67-7 | TiO2 nano particles | <10% | | | No | No | No |
| 1314-13-2 | ZnO nano particles | <10% | | | No | No | No |
| 631-62-9 | Organo Functional Siloxane nano blend | <8% | | | No | No | No |

* IARC - Group 1 (Carcinogenic to humans) * NTP - Report on Carcinogens - Known Carcinogens * OSHA - Regulated Carcinogens

3. HAZARDS IDENTIFICATION**Emergency Overview**

Keep away from open wounds and cuts

| | |
|-------------------------------------|---------------------------------------|
| Eye Contact | Irritation - Tearing |
| Skin Contact | May irritate sensitive skin |
| Inhalation | None known |
| Ingestion | May cause mild diarrhea (soap effect) |
| General Advice | Slight risk |
| Properties Affecting Health | Slight risk |
| Principle Routes of Exposure | Skin contact |

4. FIRST AID MEASURES

| | |
|--------------------------------------|--|
| General Advice | |
| Skin Contact | Rinse with soap and water |
| Eye Contact | Flush eyes with water 15 minutes, lifting eyelids |
| Inhalation | Move to well ventilated area |
| Ingestion | Drink water. If large quantity ingested, induce vomiting, call physician |
| Notes to Physician | Nano polymers and minerals in water |
| Protection of First-Aiders | None – inert polymers in water |
| Aggravated Medical Conditions | None |

5. FIRE-FIGHTING MEASURES

| | |
|--|------------------------------------|
| Flash Point | Same as water |
| Suitable Extinguishing Media | Suitable for surrounding materials |
| Extinguishing media which must not be used for safety reasons | None |

Specific Hazards

| | |
|---|--|
| Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases | None |
| Special protective equipment for firefighters | This is not a hazardous product therefore, no special equipment required |

Specific Methods

| | | | | |
|---|------------------|--------------|--------|-----------------|
| NFPA (National Fire Protection Association) | Health= (slight) | Reactivity 0 | Fire 0 | Special= (none) |
| HMIS (Hazardous Material Information System) | Health= (slight) | Reactivity 0 | Fire 0 | Special= (none) |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--------------------------------|
| Personal precautions | None |
| Environmental precautions | None. Safe to rinse down drain |
| Methods for cleaning up | Soap and water |

7. HANDLING AND STORAGE

Handling

| | |
|---|------------------------------|
| Technical Measures / Precautions | Store between 40 F and 110 F |
| Safe Handling Advice | Do not freeze or boil |

Storage

| | |
|---|---------------------------------------|
| Technical Measures / Precautions | Keep container closed when not in use |
| Incompatible Products | No info |
| Specific use(s) | N/A |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-----------------------------|------|
| Engineering measures | None |
|-----------------------------|------|

Personal protective equipment

| | |
|--|---|
| Hand Protection | Wear rubber gloves |
| Eye protection | Use chemical goggles and ensure an eyewash station is readily available |
| Respiratory Protection | Ensure there is adequate ventilation |
| Skin and Body Protection | Keep away from open wounds or cuts |
| Hygiene measures | Wash with soap and water after use |
| Environmental exposure controls | Contain the spill; recollect in suitable container for disposal |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form Liquid

Appearance Cloudy pink
Odor Sweet lemon

Important Health Safety and Environmental Information

pH 7.0-8.0
Boiling Point / Range No Data
Flash Point
Molecular Weight
Vapor Pressure No Data
Vapor Density No Data
Water Solubility 100%
Specific Gravity 1.01
Melting Point / Range

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | This material is stable |
| Materials to Avoid | Do not mix with other chemical, strong oxidizers |
| Hazardous Decomposition Products | none |
| Polymerization | Hazardous polymerization will not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity N/A
Component Information Water, inert polymers and nano metal oxides
Product Information Water, inert polymers and nano metal oxides

Local Effects

| | |
|-------------------------|---|
| Skin Irritation | Prolonged contact may dry skin and make it slippery |
| Eye Irritation | May cause slight redness |
| Inhalation | None – no data available |
| Ingestion | May cause slight stomach discomfort |
| Sensitization | None – no data available |
| Chronic Toxicity | None – no data available |

Specific Effects

| | |
|------------------------------|-----|
| Carcinogenic Effects | N/A |
| Mutagenic Effects | N/A |
| Reproductive Toxicity | N/A |
| Target Organ Effects | N/A |

12. ECOLOGICAL INFORMATION

Eco toxicity Effects None, This product does not contain any hazardous components

Component information

| CAS | Chemical Name | % Weight | ACGIH* | OSHA* |
|-----|---------------|----------|--------|-------|
| | | | | |
| | | | | |

* ACGIH - Occupational Exposure Limits - TWA's

* OSHA - PELs

Product Information

| | |
|-------------------------|---------------------------|
| Aquatic Toxicity | No information available. |
|-------------------------|---------------------------|

Other Information

| | |
|---|--|
| Ozone Depletion Potential; ODP; (R-11=1) | None. Ozone safe, full VOC compliance |
| Global Warming Potential (GWP) | None. Non-pollutant for air, water, soil |
| Additional Ecological Information | No information available |
| Mobility | No information available. |
| Bio accumulative Potential | No information available. |
| Eco toxicity Effects | No information available |
| Aquatic Toxicity | No information available. |

13. DISPOSAL CONSIDERATIONS

| | |
|--|---|
| Waste From Residues / Unused Products | Follow all federal, state, and local government regulations for disposal considerations |
| Contaminated Packaging | As above |

14. TRANSPORT INFORMATION

| | |
|-----------------------------|---|
| DOT | Shipping class - 55 |
| UN-No | N/A |
| Proper shipping name | Cleaning compound liquid |
| Packing group | PG-I |
| Subsidiary Risk | None |
| Description | Water, inert polymer, nano TiO₂ & ZnO |

15. REGULATORY INFORMATION

| CERCLA | RCRA | VOC | EUOED* |
|---------------|-------------|------------|---------------|
| No data | No data | No data | |

* EUOED - EU Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV)

16. OTHER INFORMATION

| | |
|---------------------------|-----------|
| Literary Reference | None. |
| Prepared By | EST, Inc. |
| End of Safety Data Sheet. | |