

MATERIAL SAFETY DATA SHEET (MSDS)

Sound Environmental Products

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sound 3300 Oil Eliminator (Industrial Degreaser)

MSDS Prepared: 6/12/01

Company Identification:
Sound Environmental Products - U.S.A
PO Box 23
Puyallup, WA 98371
<http://www.sepproducts.com>

Contact Numbers:
Emergency response (USA): Chemtrec 1-800-424-9300
Emergency response (International): Chemtrec (703)-527-3887
Manufacturer: 1-888-624-0908

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.: CAS Number:

| | | |
|---|---|-----------|
| 1 | Water | 7732-18-5 |
| 2 | A proprietary mixture of nutrients and naturally occurring class 1 bacteria | N/A |
| 3 | d-Limonene | 5989-27-5 |
| 4 | Proprietary | None |

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure

| | |
|---------------------|--|
| Inhalation | Inhalation of vapors may cause minor mucous membrane irritation. |
| Skin Contact | Prolonged contact with skin may cause drying and dermatitis of the skin. |
| Eye Contact | Contact with eyes may cause moderate to high irritation. |
| Ingestion | Ingestion may cause vomiting, headache, and diarrhea. |

4. FIRST AID MEASURES

| | |
|---------------------|--|
| Inhalation | If symptoms are experienced, evacuate to fresh air. If symptoms persist, seek medical attention. |
| Skin Contact | Wash exposed areas with soap and water. If irritation persists, seek medical attention. |
| Eye Contact | Remove contact lenses. Flush eyes thoroughly with water for 15 minutes. If irritation persists, seek medical attention. |
| Ingestion | Do not induce vomiting. Drink one to two glasses of water to dilute product. Seek medical attention. |

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| Flash point (EPA 1010 CC) | 124° F (46° C) |
| The following information applies to the d-Limonene fraction (less than 50%) of this product. | |
| U.E.L. | 6.1% |
| L.E.L. | 0.7% |
| Auto-ignition temp. | 302° F (150° C) |
| Unusual Hazards | Keep away from heat, sparks, and open flames. |
| Extinguishing Agents | Dry Chemical, CO2 foam, water spray, or regular foam. |
| Personal Protective Equipment | SCBA recommended. |
| Special Procedures | Smother to exclude air. Handle as an oil fire. Class "B" procedure. |

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

Appropriate protective equipment should be worn when handling a spill of this product. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow. Remove all contaminated clothing. Wash all exposed skin areas with soap and water after exposure.

Procedures

Floor may be slippery; use care to avoid falling. Small spills can be wiped up. Large spills should be contained and evaporated or adsorbed by dirt, sand or other suitable adsorbents for disposal. Move containers to a well-ventilated area. Eliminate any source of ignition. Dispose of in accordance with all local, state, and federal regulations.

MATERIAL SAFETY DATA SHEET (MSDS)
Sound Environmental Products

7. HANDLING AND STORAGE

Storage Conditions

The recommended storage temperature range for this material is 38° F (3.3° C) to 118° F (47.7° C). Keep container tightly closed when not in use. Extended storage will result in product separation; necessitating storage as a combustible liquid.

Handling Procedures

Usual precautions for combustible liquids. Avoid contact with incompatible chemicals listed in SECTION 10.

Other

Product may expand slightly during initial storage causing a slight positive pressure in the container. Open container to equalize the pressure. Storage in certain plastic and polyethylene containers may allow a slight loss of solvent through the container walls resulting in a slight vacuum inside the container. Open container to equalize the pressure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| No.: | | CAS Number: |
|------|---|-------------|
| 1 | Water | 7732-18-5 |
| 2 | A proprietary mixture of nutrients and naturally occurring bacteria | N/A |
| 3 | d-Limonene | 5989-27-5 |
| 4 | Proprietary | None |

| No.: | Units | OSHA | | ACGIH | | NIOSH | |
|------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | TWA | STEL | TWA | STEL | TWA | STEL |
| 1 | | None | None | None | None | None | None |
| 2 | | Not Established | Not Established | Not Established | Not Established | Not Established | Not Established |
| 3 | | None | None | None | None | None | None |
| 4 | | Not Established | Not Established | Not Established | Not Established | Not Established | Not Established |

Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. In general, respiratory protection with this product is not required. However, use in confined spaces, poorly ventilated areas, or individuals experiencing mucus membrane irritation may necessitate use of NIOSH approved air purifying respirator equipped with organic vapor cartridges.

Eye Protection

Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

Hand Protection

Chemical-resistant gloves should be worn whenever this material is handled. The gloves listed may provide protection against permeation (Nitrile, Polyvinyl Alcohol, Viton). Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Other Protection

Use of Tyvek or coveralls may be used to prevent clothing and skin contact, but is not required.

Engineering Controls (Ventilation)

Use of local exhaust ventilation. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems.

Other Protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|--------------------|
| Color | Milky white |
| State | Liquid |
| Odor Characteristic | Strong citrus odor |
| pH | 6.8 +/- 0.5 |
| Viscosity | 1.17 at 68 °F |
| Specific Gravity (water = 1) | 0.92 |
| Vapor Density (air = 1) | >1 |
| Melting Point | -142 °F (-96.9 °C) |
| Boiling Point | 240 °F (115 °C) |
| Solubility in Water | Moderate |
| Evaporation Rate (d-Limonene) | Medium to fast |

MATERIAL SAFETY DATA SHEET (MSDS)
Sound Environmental Products

10. STABILITY AND REACTIVITY

Instability

This material is considered stable.

Hazardous Decomposition Products

Thermal decomposition may yield the following: CO, CO₂, and smoke.

Hazardous Polymerization

Product will not undergo polymerization.

Incompatibility

Strong oxidizing agents and acidic agents including acidic clays, peroxides, halogens, vinyl chloride.

11. TOXICOLOGICAL INFORMATION

Acute Data

No toxicity data is available for this material.

Toxicity data for d-Limonene is listed below.

Oral LD₅₀ – rat: >5000 mg/kg

Dermal LD₅₀ – rabbit: >5000 mg/kg

Skin Irritation – rabbit: Severely irritating

Eye Irritation – rabbit: Severely irritating

Inhalation LC₅₀ – No test data found for product

Subchronic/Chronic Data

This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be “probable” or “suspected” human carcinogens.

Mutagenicity Data

There is no data available for Mutagenicity of this product.

Reproductive/Teratology Data

There is no data available for reproductive/teratology of this product.

12. ECOLOGICAL INFORMATION

Environmental Toxicity

| MATERIAL TESTED | SPECIES | LC50 (ppm) |
|--------------------------------|-------------------|------------|
| ECP-99 Oil Eater | Menidia beryllina | 70 96-hr |
| | Mysidopsis bahia | 64 48-hr |
| No. 2 Fuel Oil | Menidia beryllina | 57 96-hr |
| | Mysidopsis bahia | 56 48-hr |
| ECP-99 & No. 2 Fuel Oil (1:10) | Menidia beryllina | 41 96-hr |
| | Mysidopsis bahia | 55 48-hr |
| Reference Toxicant (DSS) | Menidia beryllina | 1.14 96-hr |
| | Mysidopsis bahia | 0.98 48-hr |

13. DISPOSAL CONSIDERATIONS

Procedure

In general product can be discharged to sanitary sewer and will provide cleaning benefits. However, if used to remove hydrocarbons, discharges may be allowed only under pre-treatment permit. Dispose of in accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

| | |
|--------------------|---|
| Shipping name | Compound, Cleaning n.o.s. |
| Hazard Class | Not Regulated (Exception 173.120(b) applies) Combustible liquid |
| UN Number | Not Listed |
| Packaging Group | Not Regulated (Exception 173.120(b) applies) Combustible liquid |
| Label Code | None required (Exception 172.101(g) applies) |
| TDG Classification | Listed (Exception 173.150(f) applies) Combustible liquid |

MATERIAL SAFETY DATA SHEET (MSDS)
ECP Service Corporation

15. REGULATORY INFORMATION

Workplace Classification

This product is listed as a skin and eye irritant under OSHA Hazard Communications Standard 29CFR 1910.1200

Canadian WHIMS Hazard Classification

The major constituents of this product are listed on the Domestic Substances List.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

HMIS Ratings - (Hazardous Materials Identification System)

| | | |
|--------------|---|--|
| Health | 1 | H1: Slight Hazard – Irritation or minor reversible injury possible. |
| Flammability | 2 | F2: Moderate Hazard – Materials that must be moderately heated before ignition will occur. Including flammable liquids with flash points at or above 100° F and below 200° F |
| Reactivity | 0 | R0: Minimal Hazard – Materials that are normally stable, even under fire conditions, and will not react with water. |
| Protection | G | Safety glasses and gloves recommended |

MSDS Preparation Department

Sound Environmental Products U.S.A.
PO Box 23
Puyallup, WA 98371

For Information call:
Phone: 253-845-9957
fax: 253-435-5472

Supplier

Sound Environmental Products U.S.A.
PO Box 23
Puyallup, WA 98371

For Information call:
Phone: 253-845-9957
fax: 253-435-5472

Manufacturer

Sound Environmental Products U.S.A.
PO Box 23
Puyallup, WA 98371

For Information call:
Phone: 253-845-9957
fax: 253-435-5472

Product Use

Refer to Sound Environmental Products' web site at <http://www.sepproducts.com> and Product Data Sheet, Sound 3000 Oil Eater

The information on this Material Safety Data Sheet (MSDS) reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application, which is not described on the label or in the Product Data Sheet is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazardous Communication Regulation.