

# Material Safety Data Sheet



## Eco-Rite™ Heavy Duty Degreaser

### 1. Product and company identification

|                             |   |
|-----------------------------|---|
| <b>Product name</b>         | : Eco-Rite™ Heavy Duty Degreaser                              |
| <b>Supplier</b>             | : Chemtronics<br>8125 Cobb Center Drive<br>Kennesaw, GA 30152 |
|                             | Tel. 770-424-4888 or toll free 800-645-5244                   |
| <b>Synonym</b>              | : ES155   |
| <b>Trade name</b>           | : Bio-Degradable Heavy Duty Degreaser                         |
| <b>Material uses</b>        | : Industrial applications                                     |
| <b>Manufacturer</b>         | : Chemtronics<br>8125 Cobb Center Drive<br>Kennesaw, GA 30152 |
|                             | Tel. 770-424-4888 or toll free 800-645-5244                   |
| <b>Code</b>                 | : ES155   |
| <b>MSDS #</b>               | : 155   |
| <b>Validation date</b>      | : 10/22/2013.   |
| <b>Print date</b>           | : 10/22/2013.   |
| <b>In case of emergency</b> | : Chemtrec - 1-800-424-9300 or collect 703-527-3887<br>24/7   |
| <b>Product type</b>         | : Liquid.   |

### 2. Hazards identification

#### Emergency overview

|                               |  |
|-------------------------------|--|
| <b>Physical state</b>         | : Liquid. [Clear viscous liquid.]  |
| <b>Color</b>                  | : Clear. Colorless.  |
| <b>Hazard statements</b>      | : MAY CAUSE EYE AND SKIN IRRITATION.   |
| <b>Precautionary measures</b> | : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  |
| <b>OSHA/HCS status</b>        | : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product. |

#### Potential acute health effects

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | : No known significant effects or critical hazards.             |
| <b>Ingestion</b>  | : Harmful if swallowed.   |
| <b>Skin</b>       | : Severe irritant May cause skin irritation.                    |
| <b>Eyes</b>       | : May cause severe eye irritation. Severely irritating to eyes. |

#### Potential chronic health effects

|                              |   |
|------------------------------|---|
| <b>Chronic effects</b>       | : No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards. |
| <b>Developmental effects</b> | : No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

|                   |                     |
|-------------------|---------------------|
| <b>Inhalation</b> | : No specific data. |
|-------------------|---------------------|

## 2. Hazards identification

|   |  |
|---|--|
| <b>Ingestion</b>                                      | : No specific data.  |
| <b>Skin</b>   | : Adverse symptoms may include the following:<br>irritation<br>redness                     |
| <b>Eyes</b>   | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Medical conditions aggravated by over-exposure</b> | : None known.  |

See toxicological information (Section 11)

## 3. Composition/information on ingredients

| Name   | CAS number | %     |
|--|------------|-------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | 25322-68-3 | 0 - 5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

|                                   |  |
|-----------------------------------|--|
| <b>Eye contact</b>                | : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.   |
| <b>Skin contact</b>               | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.                                      |
| <b>Inhalation</b>                 | : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. |
| <b>Ingestion</b>                  | : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.   |
| <b>Protection of first-aiders</b> | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.   |
| <b>Notes to physician</b>         | : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |

## 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Flammability of the product</b>              | : In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Extinguishing media</b>                      |   |
| <b>Suitable</b>                                 | : Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Not suitable</b>                             | : None known.   |
| <b>Special exposure hazards</b>                 | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| <b>Hazardous thermal decomposition products</b> | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |

## 5. Fire-fighting measures

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).  |
| <b>Environmental precautions</b> | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |
| <b>Methods for cleaning up</b>   |   |
| <b>Small spill</b>               | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| <b>Large spill</b>               | : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

## 7. Handling and storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| <b>Storage</b>  | : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.   |

## 8. Exposure controls/personal protection

| Ingredient  | Exposure limits  |
|---|--|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-Ethane-1,2-diol, ethoxylated | <b>AIHA WEEL (United States, 10/2011).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Aerosol |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Hygiene measures</b>                | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Personal protection</b>             |  |
| <b>Respiratory</b>                     | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  |
| <b>Hands</b>                           | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| <b>Eyes</b>                            | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.  |
| <b>Skin</b>                            | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Environmental exposure controls</b> | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.   |

## 9. Physical and chemical properties

|                                   |  |
|-----------------------------------|--|
| <b>Physical state</b>             | : Liquid. [Clear viscous liquid.]                  |
| <b>Flash point</b>                | : Closed cup: 141°C (285.8°F) [Setaflash.]         |
| <b>Color</b>                      | : Clear. Colorless.                                |
| <b>pH</b>                         | : 7  |
| <b>Boiling/condensation point</b> | : >200°C (>392°F)                                  |
| <b>Vapor pressure</b>             | : <0.0027 kPa (<0.02 mm Hg) [room temperature]     |
| <b>Evaporation rate</b>           | : <1 (butyl acetate = 1)                           |
| <b>Viscosity</b>                  | : Dynamic (room temperature): <100 mPa·s (<100 cP) |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Conditions to avoid</b>                | : No specific data.  |
| <b>Incompatible materials</b>             | : No specific data.  |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |

## 11. Toxicological information

### Acute toxicity

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name  | Result               | Species | Score | Exposure                | Observation |
|--|----------------------|---------|-------|-------------------------|-------------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Eyes - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
|  | Eyes - Mild irritant | Rabbit  | -     | 500 milligrams          | -           |
|  | Skin - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
|  | Skin - Mild irritant | Rabbit  | -     | 500 milligrams          | -           |

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

| Product/ingredient name  | Result                                    | Species                   | Exposure |
|--|---|---------------------------|----------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | Acute LC50 >1000000 $\mu$ g/l Fresh water | Fish - Salmo salar - Parr | 96 hours |

**Conclusion/Summary** : Not available.

### Persistence/degradability

**Conclusion/Summary** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been

## 13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

| Regulatory information       | UN number      | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------------|----------------|----------------------|---------|-----|-------|------------------------|
| <b>DOT Classification</b>    | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |
| <b>TDG Classification</b>    | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |
| <b>Mexico Classification</b> | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |
| <b>ADR/RID Class</b>         | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |
| <b>IMDG Class</b>            | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |
| <b>IATA-DGR Class</b>        | Not regulated. | Cleaning solutions.  | -       | -   |       | -                      |

PG\* : Packing group

## 15. Regulatory information

**HCS Classification** : Not regulated.

**U.S. Federal regulations** : **TSCA 5(e) substance consent order:** Pentanedioic acid, 2-methyl-, 1,5-dimethyl ester  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**TSCA 12(b) one-time export:** Pentanedioic acid, 2-methyl-, 1,5-dimethyl ester  
**United States inventory (TSCA 8b):** Not determined.

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602** : Not listed  
**Class I Substances**

**Clean Air Act Section 602** : Not listed  
**Class II Substances**

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

## 15. Regulatory information

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

**State regulations**

**Massachusetts** : None of the components are listed.  
**New York** : None of the components are listed.  
**New Jersey** : None of the components are listed.  
**Pennsylvania** : None of the components are listed.  
**Canada inventory** : Not determined.

**International regulations**

**International lists** : **Australia inventory (AICS)**: All components are listed or exempted.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory**: Not determined.  
**Korea inventory**: All components are listed or exempted.  
**Malaysia Inventory (EHS Register)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.  
**Philippines inventory (PICCS)**: Not determined.  
**Taiwan inventory (CSNN)**: Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

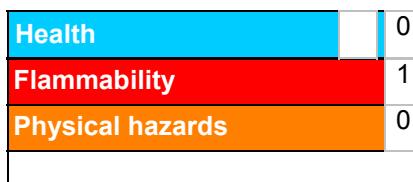
**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Label requirements** : MAY CAUSE EYE AND SKIN IRRITATION.

**Hazardous Material Information System (U.S.A.)** :



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



## 16. Other information

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▀ Indicates information that has changed from previously issued version.

### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.