



# Super Green Heavy Duty Cleaner

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 06/09/2016

Date of Issue: 06/07/2016

Version: 1.1

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Super Green Heavy Duty Cleaner

**Product Code:** 916XX

#### Intended Use of the Product

Cleaner

#### Name, Address, and Telephone of the Responsible Party

Starbrite® Inc.

4041 SW 47<sup>th</sup> Avenue

Fort Lauderdale, FL 33314

(954)587-6280

[www.starbrite.com](http://www.starbrite.com)

#### Emergency Telephone Number

**Emergency Number** : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### GHS-US/CA Classification

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

#### Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

##### Precautionary Statements (GHS-US/CA)

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

#### Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### Unknown Acute Toxicity (GHS-US/CA)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

| Name             | Product Identifier | % *           | GHS Ingredient Classification |
|------------------|--------------------|---------------|-------------------------------|
| Tetrasodium EDTA | (CAS No) 64-02-8   | 0.925 - 1.025 | Comb. Dust                    |

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|  |                      |         |  |
|--|----------------------|---------|--|
|  |                      |         | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Eye Dam. 1, H318<br>Aquatic Acute 2, H401  |
| 2-Butoxyethanol  | (CAS No) 111-76-2    | 1       | Flam. Liq. 4, H227<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:vapor), H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319  |
| Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched | (CAS No) 127087-87-0 | 0.9 - 1 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411  |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives                         | (CAS No) 85536-14-7  | 1       | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412   |
| Formaldehyde   | (CAS No) 50-00-0     | 0.0015  | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:gas), H331<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 1A, H350<br>Aquatic Acute 2, H401 |

Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation. Causes serious eye damage.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None known.

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### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrocarbons. Sulfur oxides.

### **Reference to Other Sections**

Refer to Section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters.

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, and spray. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Water reactive materials.

### **Specific End Use(s)**

Cleaner

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| <b>2-Butoxyethanol (111-76-2)</b> |                                      |  |
|-----------------------------------|--------------------------------------|--|
| Mexico                            | OEL TWA (mg/m <sup>3</sup> )         | 120 mg/m <sup>3</sup>  |
| Mexico                            | OEL TWA (ppm)                        | 26 ppm   |
| Mexico                            | OEL STEL (mg/m <sup>3</sup> )        | 360 mg/m <sup>3</sup>  |
| Mexico                            | OEL STEL (ppm)                       | 75 ppm   |
| USA ACGIH                         | ACGIH TWA (ppm)                      | 20 ppm   |
| USA ACGIH                         | ACGIH chemical category              | Confirmed Animal Carcinogen with Unknown Relevance to Humans   |
| USA ACGIH                         | Biological Exposure Indices (BEI)    | 200 mg/g Kreatinin (Medium: urine - Time: end of shift - Parameter: Butoxyacetic acid with hydrolysis) |
| USA OSHA                          | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 240 mg/m <sup>3</sup>  |
| USA OSHA                          | OSHA PEL (TWA) (ppm)                 | 50 ppm   |
| USA OSHA                          | Limit value category (OSHA)          | prevent or reduce skin absorption  |
| USA NIOSH                         | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 24 mg/m <sup>3</sup>   |
| USA NIOSH                         | NIOSH REL (TWA) (ppm)                | 5 ppm  |
| USA IDLH                          | US IDLH (ppm)                        | 700 ppm  |
| Alberta                           | OEL TWA (mg/m <sup>3</sup> )         | 97 mg/m <sup>3</sup>   |
| Alberta                           | OEL TWA (ppm)                        | 20 ppm   |
| British Colombia                  | OEL TWA (ppm)                        | 20 ppm   |
| Manitoba                          | OEL TWA (ppm)                        | 20 ppm   |
| New Brunswick                     | OEL TWA (mg/m <sup>3</sup> )         | 121 mg/m <sup>3</sup>  |
| New Brunswick                     | OEL TWA (ppm)                        | 25 ppm   |
| Newfoundland & Labrador           | OEL TWA (ppm)                        | 20 ppm   |
| Nova Scotia                       | OEL TWA (ppm)                        | 20 ppm   |
| Nunavut                           | OEL STEL (mg/m <sup>3</sup> )        | 360 mg/m <sup>3</sup>  |
| Nunavut                           | OEL STEL (ppm)                       | 75 ppm   |
| Nunavut                           | OEL TWA (mg/m <sup>3</sup> )         | 120 mg/m <sup>3</sup>  |
| Nunavut                           | OEL TWA (ppm)                        | 25 ppm   |
| Northwest Territories             | OEL STEL (ppm)                       | 30 ppm   |
| Northwest Territories             | OEL TWA (ppm)                        | 20 ppm   |
| Ontario                           | OEL TWA (ppm)                        | 20 ppm   |
| Prince Edward Island              | OEL TWA (ppm)                        | 20 ppm   |
| Québec                            | VEMP (mg/m <sup>3</sup> )            | 97 mg/m <sup>3</sup>   |
| Québec                            | VEMP (ppm)                           | 20 ppm   |
| Saskatchewan                      | OEL STEL (ppm)                       | 30 ppm   |
| Saskatchewan                      | OEL TWA (ppm)                        | 20 ppm   |
| Yukon                             | OEL STEL (mg/m <sup>3</sup> )        | 720 mg/m <sup>3</sup>  |
| Yukon                             | OEL STEL (ppm)                       | 150 ppm  |
| Yukon                             | OEL TWA (mg/m <sup>3</sup> )         | 240 mg/m <sup>3</sup>  |
| Yukon                             | OEL TWA (ppm)                        | 50 ppm   |
| <b>Formaldehyde (50-00-0)</b>     |                                      |  |
| Mexico                            | OEL Ceiling (mg/m <sup>3</sup> )     | 3 mg/m <sup>3</sup>  |
| Mexico                            | OEL Ceiling (ppm)                    | 2 ppm  |
| USA ACGIH                         | ACGIH Ceiling (ppm)                  | 0.3 ppm  |
| USA ACGIH                         | ACGIH chemical category              | dermal sensitizer,Suspected Human Carcinogen   |
| USA OSHA                          | OSHA PEL (TWA) (ppm)                 | 0.75 ppm   |

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|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| USA OSHA                | OSHA PEL (STEL) (ppm)            | 2 ppm (see 29 CFR 1910.1048) |
| USA NIOSH               | NIOSH REL (TWA) (ppm)            | 0.016 ppm                    |
| USA NIOSH               | NIOSH REL (ceiling) (ppm)        | 0.1 ppm                      |
| USA IDLH                | US IDLH (ppm)                    | 20 ppm                       |
| Alberta                 | OEL Ceiling (mg/m <sup>3</sup> ) | 1.3 mg/m <sup>3</sup>        |
| Alberta                 | OEL Ceiling (ppm)                | 1 ppm                        |
| Alberta                 | OEL TWA (mg/m <sup>3</sup> )     | 0.9 mg/m <sup>3</sup>        |
| Alberta                 | OEL TWA (ppm)                    | 0.75 ppm                     |
| British Colombia        | OEL Ceiling (ppm)                | 1 ppm                        |
| British Colombia        | OEL TWA (ppm)                    | 0.3 ppm                      |
| Manitoba                | OEL Ceiling (ppm)                | 0.3 ppm                      |
| New Brunswick           | OEL STEL (ppm)                   | 1.5 ppm                      |
| New Brunswick           | OEL TWA (ppm)                    | 0.5 ppm                      |
| Newfoundland & Labrador | OEL Ceiling (ppm)                | 0.3 ppm                      |
| Nova Scotia             | OEL Ceiling (ppm)                | 0.3 ppm                      |
| Nunavut                 | OEL Ceiling (mg/m <sup>3</sup> ) | 2.4 mg/m <sup>3</sup>        |
| Nunavut                 | OEL Ceiling (ppm)                | 2 ppm                        |
| Northwest Territories   | OEL Ceiling (ppm)                | 0.3 ppm                      |
| Ontario                 | OEL Ceiling (ppm)                | 1.5 ppm                      |
| Ontario                 | OEL STEL (ppm)                   | 1 ppm                        |
| Prince Edward Island    | OEL Ceiling (ppm)                | 0.3 ppm                      |
| Québec                  | PLAFOND (mg/m <sup>3</sup> )     | 3 mg/m <sup>3</sup>          |
| Québec                  | PLAFOND (ppm)                    | 2 ppm                        |
| Saskatchewan            | OEL Ceiling (ppm)                | 0.3 ppm                      |
| Yukon                   | OEL Ceiling (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup>          |
| Yukon                   | OEL Ceiling (ppm)                | 2 ppm                        |

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Materials for Protective Clothing:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Other Information:** When using, do not eat, drink or smoke

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                  |                  |
|------------------|------------------|
| Physical State   | : Liquid         |
| Appearance       | : Green          |
| Odor             | : Characteristic |
| Odor Threshold   | : Not available  |
| pH               | : 10.0           |
| Evaporation Rate | : Not available  |
| Melting Point    | : 0 °C (32 °F)   |

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|  |                   |
|--|-------------------|
| Freezing Point                         | : Not available   |
| Boiling Point                          | : 100 °C (212 °F) |
| Flash Point                            | : Not available   |
| Auto-ignition Temperature              | : Not available   |
| Decomposition Temperature              | : Not available   |
| Flammability (solid, gas)              | : Not available   |
| Lower Flammable Limit                  | : Not available   |
| Upper Flammable Limit                  | : Not available   |
| Vapor Pressure                         | : Not available   |
| Relative Vapor Density at 20°C         | : Not available   |
| Relative Density                       | : Not available   |
| Specific Gravity                       | : 1.025           |
| Solubility                             | : Soluble.        |
| Partition Coefficient: N-Octanol/Water | : Not available   |
| Viscosity                              | : Not available   |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Water reactive materials.

**Hazardous Decomposition Products:** None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation.

**pH:** 10.0

**Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 10.0

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None known.

### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

|                                   |              |
|-----------------------------------|--------------|
| <b>Tetrasodium EDTA (64-02-8)</b> |              |
| <b>LD50 Oral Rat</b>              | 1780 mg/kg   |
| <b>ATE US/CA (dust, mist)</b>     | 1.50 mg/l/4h |

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|   |   |
|---|---|
| <b>2-Butoxyethanol (111-76-2)</b>   |   |
| LD50 Oral Rat   | 470 mg/kg                                       |
| LD50 Dermal Rabbit  | 220 mg/kg                                       |
| LC50 Inhalation Rat   | 3.84 mg/l/4h                                    |
| LC50 Inhalation Rat   | 450 ppm/4h                                      |
| <b>Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)</b> |   |
| LD50 Oral Rat   | 1310 mg/kg                                      |
| <b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>                          |   |
| LD50 Oral Rat   | 1219 mg/kg                                      |
| <b>Formaldehyde (50-00-0)</b>   |   |
| LD50 Oral Rat   | 100 mg/kg                                       |
| LD50 Dermal Rat   | 270 mg/kg                                       |
| ATE US/CA (gas)   | 700.00 ppmV/4h                                  |
| <b>2-Butoxyethanol (111-76-2)</b>   |   |
| IARC Group  | 3   |
| <b>Formaldehyde (50-00-0)</b>   |   |
| IARC Group  | 1   |
| National Toxicology Program (NTP) Status  | Known Human Carcinogens.                        |
| OSHA Hazard Communication Carcinogen List   | In OSHA Hazard Communication Carcinogen list.   |
| OSHA Specifically Regulated Carcinogen List   | In OSHA Specifically Regulated Carcinogen list. |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecology - General: Not classified.

|  |  |
|--|--|
| <b>Tetrasodium EDTA (64-02-8)</b>  |  |
| LC50 Fish 1  | 486 mg/l (Exposure time: 96h - Species: Lepomis macrochirus )                        |
| EC50 Daphnia 1   | 625 mg/l (Exposure time: 24 h - Species: Daphnia magna)                              |
| LC50 Fish 2  | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])              |
| ErC50 (algae)  | 3 mg/l (exposure time: 96 h - Species: Green Algae)                                  |
| <b>2-Butoxyethanol (111-76-2)</b>  |  |
| LC50 Fish 1  | 1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])              |
| EC50 Daphnia 1   | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| LC50 Fish 2  | 2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)                       |
| <b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b> |  |
| LC50 Fish 1  | 5.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])             |
| EC50 Daphnia 1   | 5.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)                              |
| LC50 Fish 2  | 1.67 mg/l (Exposure time: 96h - Species:Lepomis macrochirus)                         |
| <b>Formaldehyde (50-00-0)</b>  |  |
| LC50 Fish 1  | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1   | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                |
| LC50 Fish 2  | 1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])              |
| EC50 Daphnia 2   | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])               |

### Persistence and Degradability

|                                       |                  |
|---------------------------------------|------------------|
| <b>Super Green Heavy Duty Cleaner</b> |                  |
| Persistence and Degradability         | Not established. |

### Bioaccumulative Potential

|                                       |                  |
|---------------------------------------|------------------|
| <b>Super Green Heavy Duty Cleaner</b> |                  |
| Bioaccumulative Potential             | Not established. |

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Tetrasodium EDTA (64-02-8)</b> |                   |
| Log Pow                           | 5.01 (calculated) |

|                                   |  |
|-----------------------------------|--|
| <b>2-Butoxyethanol (111-76-2)</b> |  |
|-----------------------------------|--|

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|  |                 |
|--|-----------------|
| <b>Log Pow</b>   | 0.81 (at 25 °C) |
| <b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b> |                 |
| <b>Log Pow</b>   | 2 (at 23 °C)    |
| <b>Formaldehyde (50-00-0)</b>  |                 |
| <b>Log Pow</b>   | 0.35 (at 25 °C) |

**Mobility in Soil** Not available

### **Other Adverse Effects**

**Other Information:** Avoid release to the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

## **SECTION 14: TRANSPORT INFORMATION**

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal Regulations**

|   |                                 |
|---|---------------------------------|
| <b>Super Green Heavy Duty Cleaner</b>   |                                 |
| <b>SARA Section 311/312 Hazard Classes</b>  | Immediate (acute) health hazard |
| <b>Tetrasodium EDTA (64-02-8)</b>   |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                         |                                 |
| <b>2-Butoxyethanol (111-76-2)</b>   |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                         |                                 |
| <b>Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)</b> |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                         |                                 |
| <b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>                          |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                         |                                 |
| <b>Formaldehyde (50-00-0)</b>   |                                 |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                         |                                 |
| Listed on the United States SARA Section 302  |                                 |
| Subject to reporting requirements of United States SARA Section 313                               |                                 |
| <b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>   | 500                             |
| <b>SARA Section 313 - Emission Reporting</b>  | 0.1 %                           |

### **US State Regulations**

|  |  |
|--|--|
| <b>Formaldehyde (50-00-0)</b>  |  |
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>           | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| <b>Tetrasodium EDTA (64-02-8)</b>                                      |  |
| U.S. - Texas - Effects Screening Levels - Long Term                    |  |
| U.S. - Texas - Effects Screening Levels - Short Term                   |  |
| <b>2-Butoxyethanol (111-76-2)</b>                                      |  |
| U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute |  |
| U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)      |  |
| U.S. - Colorado - Groundwater Quality Standards                        |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)          |  |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)            |  |



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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Michigan - Occupational Exposure Limits - Skin Designations  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - Skin Designations  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - New York - Occupational Exposure Limits - Skin Designations  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - Oregon - Permissible Exposure Limits - Skin Designations  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups  
RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - Skin Designations  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - Skin Designations  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### **Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)**

U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

### **Formaldehyde (50-00-0)**

U.S. - California - SCAQMD - Toxic Air Contaminants - Carcinogens  
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute  
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic  
U.S. - California - SDAPCD - Toxic Air Contaminants - Carcinogenic Impacts Must Be Calculated  
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities

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U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities  
U.S. - Delaware - Accidental Release Prevention Regulations - Toxic Endpoints  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - Acceptable Maximum Peak Above the Ceiling Concentration for an 8-Hour Shift  
U.S. - Idaho - Occupational Exposure Limits - Ceilings  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Illinois - Toxic Air Contaminant Carcinogens  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Maine - Chemicals of High Concern  
U.S. - Massachusetts - Allowable Ambient Limits (AALs)  
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELEs)  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Occupational Exposure Limits - STELs  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Michigan - Polluting Materials List  
U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Groundwater Health Risk Limits  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Hampshire - Prohibited Volatile Organic Compounds  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)  
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria  
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)  
U.S. - New York - Occupational Exposure Limits - Ceilings  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - New York - Priority Chemical Avoidance List  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - North Carolina - Control of Toxic Air Pollutants  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
U.S. - North Dakota - Air Pollutants - Unit Risk Factors  
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues  
U.S. - Ohio - Accidental Release Prevention - Threshold Quantities  
U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities  
U.S. - Oregon - Permissible Exposure Limits - STELs  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups  
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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RTK - U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
 RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
 U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour  
 U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
 U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
 U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
 U.S. - Tennessee - Occupational Exposure Limits - STELs  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Vermont - Hazardous Waste - Hazardous Constituents  
 U.S. - Vermont - Permissible Exposure Limits - Ceilings  
 U.S. - Vermont - Permissible Exposure Limits - STELs  
 U.S. - Vermont - Permissible Exposure Limits - TWAs  
 U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List  
 U.S. - Washington - Dangerous Waste - Discarded Chemical Products List  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs  
 U.S. - West Virginia - Air Quality - Toxic Air Pollutant Emission Limits  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet  
 U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals

### Canadian Regulations

#### Tetrasodium EDTA (64-02-8)

Listed on the Canadian DSL (Domestic Substances List)

#### 2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 06/09/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

### GHS Full Text Phrases:

|                                     |  |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal) Category 3                               |
| Acute Tox. 3 (Inhalation:gas)       | Acute toxicity (inhalation:gas) Category 3                       |
| Acute Tox. 3 (Inhalation:vapor)     | Acute toxicity (inhalation:vapor) Category 3                     |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral) Category 3                                 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                 |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 2                     | Hazardous to the aquatic environment - Acute Hazard Category 2   |
| Aquatic Acute 3                     | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment - Chronic Hazard Category 2 |

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|                   |  |
|-------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Carc. 1A          | Carcinogenicity Category 1A                                      |
| Carc. 1B          | Carcinogenicity Category 1B                                      |
| Comb. Dust        | Combustible Dust   |
| Compressed gas    | Gases under pressure Compressed gas                              |
| Eye Dam. 1        | Serious eye damage/eye irritation Category 1                     |
| Eye Irrit. 2A     | Serious eye damage/eye irritation Category 2A                    |
| Flam. Gas 1       | Flammable gases Category 1                                       |
| Flam. Liq. 4      | Flammable liquids Category 4                                     |
| Muta. 1B          | Germ cell mutagenicity Category 1B                               |
| Muta. 2           | Germ cell mutagenicity Category 2                                |
| Skin Corr. 1B     | Skin corrosion/irritation Category 1B                            |
| Skin Corr. 1C     | Skin corrosion/irritation Category 1C                            |
| Skin Irrit. 2     | Skin corrosion/irritation Category 2                             |
| Skin Sens. 1      | Skin sensitization Category 1                                    |
| STOT RE 1         | Specific target organ toxicity (repeated exposure) Category 1    |
| STOT SE 3         | Specific target organ toxicity (single exposure) Category 3      |
| H220              | Extremely flammable gas  |
| H227              | Combustible liquid   |
| Comb. Dust        | May form combustible dust concentrations in air                  |
| H280              | Contains gas under pressure; may explode if heated               |
| H301              | Toxic if swallowed   |
| H302              | Harmful if swallowed   |
| H304              | May be fatal if swallowed and enters airways                     |
| H311              | Toxic in contact with skin                                       |
| H314              | Causes severe skin burns and eye damage                          |
| H315              | Causes skin irritation   |
| H317              | May cause an allergic skin reaction                              |
| H318              | Causes serious eye damage  |
| H319              | Causes serious eye irritation                                    |
| H331              | Toxic if inhaled   |
| H332              | Harmful if inhaled   |
| H335              | May cause respiratory irritation                                 |
| H340              | May cause genetic defects  |
| H341              | Suspected of causing genetic defects                             |
| H350              | May cause cancer   |
| H372              | Causes damage to organs through prolonged or repeated exposure   |
| H401              | Toxic to aquatic life  |
| H402              | Harmful to aquatic life  |
| H411              | Toxic to aquatic life with long lasting effects                  |
| H412              | Harmful to aquatic life with long lasting effects                |

### NFPA Health Hazard

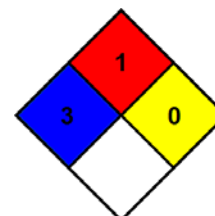
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

### NFPA Fire Hazard

: 1 - Must be preheated before ignition can occur.

### NFPA Reactivity Hazard

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015