1. IDENTIFICATION

Product Name: Tide Heavy Duty
Product Identifier: 91687701_RET_NG
Product Type: Finished Product - Consumer (Retail) Use Only
Recommended Use: Laundry Care.
Restrictions on use: Use only as directed on label.
Synonyms: PA00232994

Details of the supplier of the safety data sheet

PROCTER & GAMBLE - Fabric and Home Care Division
Ivorydale Technical Centre
5289 Spring Grove Avenue
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5
1-800-331-3774

E-mail Address: pgsds.im@pg.com

Emergency Telephone
Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard Category
Acute toxicity - Oral: Category 4
Eye Damage / Irritation: Category 2B
Signal Word: WARNING

Hazard Statements
Harmful if swallowed
Causes eye irritation
Precautionary Statements
Keep container tightly closed
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wash hands thoroughly after handling

Precautionary Statements - Response
In case of fire: Use water, CO2, dry chemical, or foam for extinction
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEA-Laureth Sulfate</td>
<td>Ethanol, 2-amino-, compds. with polyethylene glycol hydrogen sulfate C12-15-alkyl ethers</td>
<td>No</td>
<td>162201-45-8</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>No</td>
<td>68081-81-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>Propylene Glycol</td>
<td>No</td>
<td>57-55-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts</td>
<td>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts</td>
<td>No</td>
<td>68586-34-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Disodium tetraborate pentahydrate</td>
<td>Boron sodium oxide (B4Na2O7), pentahydrate</td>
<td>No</td>
<td>12179-04-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Benzenesulfonic acid, (1-methylethyl)-, sodium salt (1:1)</td>
<td>Benzenesulfonic acid, (1-methylethyl)-, sodium salt (1:1)</td>
<td>No</td>
<td>28348-53-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>C12-16 Pareth-n</td>
<td>Alcohols, C12-16, ethoxylated</td>
<td>No</td>
<td>68551-12-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Lauramine Oxide</td>
<td>Lauramine Oxide</td>
<td>No</td>
<td>70592-80-2</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Glycine, N,N-bis[2-{bis(carboxymethyl)amino}ethyl]-, sodium salt (1:5)</td>
<td>Glycine, N,N-bis[2-{bis(carboxy methyl)amino}ethyl]-, sodium salt (1:5)</td>
<td>No</td>
<td>140-01-2</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Butylphenyl Methylpropional</td>
<td>Benzenepropanal, 4-(1,1-dimethylethyl)-alpha-methyl-</td>
<td>No</td>
<td>80-54-6</td>
<td>0.1 - 1.0</td>
</tr>
</tbody>
</table>

Additional information
Actual substance concentrations fall within the ranges stated. Maximum values do not necessarily represent the values present in the formula.
4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact
Rinse with plenty of water. Get medical attention immediately if irritation persists. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact
Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed
None under normal use conditions. May cause eye irritation.

F. Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical, CO₂, alcohol-resistant foam or water spray. Dry chemical. Alcohol resistant foam. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Special hazard
Fumes may catch fire.

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Environmental precautions
Do not discharge product into natural waters without pre-treatment or adequate dilution

Methods and materials for containment and cleaning up

Methods for containment
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE
Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep away from open flames, hot surfaces and sources of ignition. Store away from other materials.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

Incompatible products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines No exposure limits noted for ingredient(s).

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures Distribution, Workplace and Household Settings: Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Manufacturing Sites: Not applicable

Personal Protective Equipment

Eye Protection Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection

Manufacturing Sites: Wear safety glasses with side shields (or goggles)

Hand Protection Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves

Skin and Body Protection Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**
In case of inadequate ventilation wear respiratory protection

**Hygiene Measures**

**Manufacturing Sites:**
Wash hands thoroughly after handling

**Distribution, Workplace and Household Settings:**
Do not eat, drink or smoke when using this product

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>opaque blue hazy</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Green, Woody, characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>8.3</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>101 °C / 214 °F</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No Flash to Boiling (NFTB)</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

---

## 10. STABILITY AND REACTIVITY

**Reactivity**
None under normal use conditions.

**Stability**
Stable under normal conditions.

**Hazardous polymerization**
Hazardous polymerization does not occur.

**Hazardous Reactions**
None under normal processing.

**Conditions to Avoid**
Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**
None in particular.

**Hazardous decomposition products**
None under normal use conditions.

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## 11. TOXICOLOGICAL INFORMATION
Product Information
Information on likely routes of exposure

Inhalation  
No known effect.

Skin contact  
No known effect.

Ingestion  
May be harmful if swallowed. Harmful if swallowed.

Eye contact  
Irritating to eyes. Avoid contact with eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity  
May be harmful if swallowed.

Skin corrosion/irritation  
No known effect.

Serious eye damage/eye irritation  
Irritating to eyes.

Skin sensitization  
No known effect.

Respiratory sensitization  
No known effect.

Germ cell mutagenicity  
No known effect.

Neurological Effects  
No known effect.

Reproductive toxicity  
No known effect.

Developmental toxicity  
No known effect.

Teratogenicity  
No known effect.

STOT - single exposure  
No known effect.

STOT - repeated exposure  
No known effect.

Target Organ Effects  
No known effect.

Aspiration hazard  
No known effect.

Carcinogenicity  
No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>22000 mg/kg bw (standard acute method, rat)</td>
<td>&gt; 2000 mg/kg bw (fixed dose procedure, rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts</td>
<td>68585-34-2</td>
<td>&gt;2001 mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Benzenesulfonic acid, (1-methylethyl)-, sodium salt (1:1)</td>
<td>28348-53-0</td>
<td>&gt; 7000 mg/kg bw (OECD 401)</td>
<td>&gt; 2000 mg/kg bw (//OECD 402)</td>
<td>&gt; 6.41 mg/L air</td>
</tr>
<tr>
<td>Glycine, N,N-bis[2-[bis(carboxymethyl)aminoethyl]-, sodium salt (1:5)</td>
<td>140-01-2</td>
<td>&gt; 5000 mg/kg bw (OECD 401)</td>
<td>&gt; 2000 mg/kg bw (OECD 402)</td>
<td>-</td>
</tr>
<tr>
<td>Butylphenyl Methylpropional</td>
<td>80-54-6</td>
<td>1390 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg bw (//OECD 402)</td>
<td>&gt; 0.18 mg/L air</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

Persistence and degradability  
No information available.

Bioaccumulative potential  
No information available.

Mobility  
No information available.

Other adverse effects  
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused Products  
Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging

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

California Hazardous Waste Codes
(non-household setting)

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14. TRANSPORT INFORMATION

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

California Proposition 65
This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>New Jersey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium tetraborate pentahydrate</td>
<td>12179-04-3</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>X</td>
</tr>
<tr>
<td>2,2'-Oxybisethanol</td>
<td>111-46-6</td>
<td>X</td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>X</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>X</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>X</td>
</tr>
</tbody>
</table>
International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory

Canada
This product is in compliance with CEPA for import by P&G

Legend
United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)
CEPA  - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 08-Dec-2017
Revision date 24-Jun-2019

Disclaimer.
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS