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

Hazard pictograms
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>68585-34-2</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(carboxymethyl)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)
No special protective equipment required

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

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.

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>55-55-6</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)amino ethyl]-, 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  
331  
(non-household setting)

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>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disodium tetraborate pentahydrate</td>
<td>12179-04-3</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2’-Oxybis ethanol</td>
<td>111-46-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>X</td>
<td></td>
<td></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