SAFETY DATA SHEET

Issuing Date: 17-Dec-2015
Revision Date: 25-Oct-2016
Version 3

This Safety Data Sheet (SDS) is not required under local legislation, implementing the UN Globally Harmonized System (GHS). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

1. IDENTIFICATION

Product Name: Tide
Product Identifier: 90785649_RET_NG
Product Type: Finished Product - Consumer (Retail) Use Only
Recommended Use: Laundry Care.
Restrictions on Use: Use only as directed on label.
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: pgds.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
Skin corrosion/irritation
Eye Damage / Irritation

Category 2
Category 2A

Signal Word
WARNING

Hazard Statements
Causes serious eye irritation
Causes skin irritation

Hazard pictograms
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>Sodium carbonate</td>
<td>Carbonic acid sodium salt (1:2)</td>
<td>No</td>
<td>497-19-8</td>
<td>25 - 30</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs.,</td>
<td>Benzenesulfonic acid, mono-C10-16-alkyl</td>
<td>No</td>
<td>68081-81-2</td>
<td>10 - 15</td>
</tr>
<tr>
<td>sodium salts</td>
<td>derivs., sodium salts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicic acid, aluminum sodium salt</td>
<td>Silicic acid, aluminum sodium salt</td>
<td>No</td>
<td>1344-00-9</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Carbonic acid disodium salt, compd. with hydrogen</td>
<td>Carbonic acid disodium salt, compd. with</td>
<td>No</td>
<td>15630-89-4</td>
<td>5 - 10</td>
</tr>
<tr>
<td>hydrogen peroxide</td>
<td>hydrogen peroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium 2-(nonanoyloxy)benzenesulfonate</td>
<td>Nonanoic acid, sulfophenyl ester, sulfur</td>
<td>No</td>
<td>91125-43-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td></td>
<td>acid, sodium salt</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>Silicic acid, sodium salt</td>
<td>No</td>
<td>1344-09-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-</td>
<td>Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-</td>
<td>No</td>
<td>68585-34-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>C10-16-alkyl ethers, sodium salts</td>
<td>omega-hydroxy-, C10-16-alkyl ethers, sodium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>salts</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
Skin contact Rinse with plenty of water. Get medical attention if irritation develops and persists.
Ingestion   Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media
None.

Special hazard
None known.

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.

Methods and materials for containment and cleaning up

Methods for containment
Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
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

**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

**Hand Protection**

**Distribution, Workplace and Household Settings:**
For sensitive skin or prolonged use, wear gloves

**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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State @20°C</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white powder blue specks</td>
</tr>
<tr>
<td>Odor</td>
<td>Scented</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>10 - 11.4</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</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>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
90785649 RET NG · Tide

Revision Date: 25-Oct-2016

Vapor pressure No information available
Vapor density No information available
Relative density 400 - 650 g/l
Water solubility No information available
Partition coefficient: n-octanol/water No information available
Autoignition temperature No information available
Decomposition temperature No information available
Viscosity of Product No information available
VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer products.

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 None under normal processing.
Materials to avoid 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 Irritating to skin.
Ingestion No known effect.
Eye contact Causes serious eye irritation.

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

Acute toxicity No known effect.
Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Causes serious eye irritation.
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>Sodium carbonate</td>
<td>497-19-8</td>
<td>2800 mg/kg bw</td>
<td>&gt; 2000 mg/kg bw (US EPA 16 CFR 1500.40)</td>
<td>-</td>
</tr>
<tr>
<td>Silicic acid, aluminum sodium salt</td>
<td>1344-00-9</td>
<td>&gt; 10000 mg/kg bw</td>
<td>&gt; 5000 mg/kg bw (//OECD 402)</td>
<td>&gt; 2.08 mg/L air (//OECD 403)</td>
</tr>
<tr>
<td>Carbonic acid disodium salt, compd. with hydrogen peroxide</td>
<td>15630-89-4</td>
<td>893 mg/kg bw (U.S. EPA Office of Pesticides and</td>
<td>&gt; 2000 mg/kg bw (EPA Guideline: standard acute)</td>
<td>-</td>
</tr>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>Acute Oral Toxicity</td>
<td>Acute Oral Toxicity Method</td>
<td>Acute Oral Toxicity Data Source</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>---------------------</td>
<td>----------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>1344-09-8</td>
<td>3400 mg/kg bw (Similar to OECD 401; standard acute method; rat)</td>
<td>&gt; 5000 mg/kg bw (Read across data on AgSil TM 25 Potassium silicate solution; rat)</td>
<td>&gt; 2.06 mg/L air (Read across data AgSil TM 25 Potassium silicate solution; EPA OPPTS 870.1300; standard acute method; rat)</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>
</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**

**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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):
Chemical Name | CAS-No | Hazardous Substances RQs | Extremely Hazardous Substances RQs | CERCLA/SARA 302 TPQ |
--- | --- | --- | --- | --- |
Sulphuric acid | 7664-93-9 | 1000 lb | 1000 lb | 1000 lb |
Sodium hydroxide | 1310-73-2 | 1000 lb | - | - |

**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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</td>
<td>1000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>1000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

**California Proposition 65**
This product is not subject to warning labeling under California Proposition 65. Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**U.S. State Regulations (RTK)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid sodium salt (1:2)</td>
<td>7757-82-6</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>Sulfuric acid sodium salt (1:2)</td>
<td>7757-82-6</td>
<td>X</td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</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: 17-Dec-2015  
Revision Date: 25-Oct-2016  
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