

SAFETY DATA SHEET



Issuing Date: 17-Dec-2016

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 | 90785849_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 5259 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

| | |
|---------------------------|-------------|
| Skin corrosion/Irritation | Category 2 |
| Eye Damage / Irritation | Category 2A |

| | |
|-------------|---------|
| Signal Word | WARNING |
|-------------|---------|

| | |
|-------------------|---|
| Hazard Statements | Causes serious eye irritation Causes skin irritation |
|-------------------|---|

Hazard pictograms



| | |
|--|--|
| Precautionary Statements | Wash hands thoroughly after handling |
| Precautionary Statements - Response | <p>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</p> <p>IF SWALLOWED: Drink 1 or 2 glasses of water</p> <p>IF ON SKIN: Rinse with plenty of water If skin irritation occurs, get medical advice/attention</p> |
| Precautionary Statements - Storage | None |
| Precautionary Statements - Disposal | None |
| Hazards not otherwise classified (HNOC) | None |

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

| Chemical Name | Synonyms | Trade Secret | CAS No | Weight % |
|--|--|--------------|------------|----------|
| Sodium carbonate | Carbonic acid sodium salt (1:2) | No | 497-19-8 | 25 - 30 |
| Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts | Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts | No | 68081-81-2 | 10 - 15 |
| Silicic acid, aluminum sodium salt | Silicic acid, aluminum sodium salt | No | 1344-00-9 | 10 - 15 |
| Carbonic acid disodium salt, compd. with hydrogen peroxide | Carbonic acid disodium salt, compd. with hydrogen peroxide | No | 15630-89-4 | 5 - 10 |
| Sodium 2-(nonanoyloxy)benzenesulfonate | Nonanoic acid, sulfo-phenyl ester, sodium salt (1:1) | No | 91125-43-8 | 1 - 5 |
| Silicic acid, sodium salt | Silicic acid, sodium salt | No | 1344-09-8 | 1 - 5 |
| Poly(oxy-1,2-ethanedyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts | Poly(oxy-1,2-ethanedyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts | No | 68585-34-2 | 1 - 5 |

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 |

symptoms occur.

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

Most important symptoms/effects, acute and delayed None under normal use conditions.

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.

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

| Chemical Name | CAS No | Alberta | Québec | Ontario (TWA/EV) | British Columbia |
|-------------------------------------|-----------|---------|--------|--------------------------|----------------------------|
| Sillicic acid, aluminum sodium salt | 1344-00-9 | | | TWA: 1 mg/m ³ | TWA: 1.0 mg/m ³ |

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

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------|--------------------------|
| Physical State @20°C | Solid |
| Appearance | white powder blue specks |
| Odor | Scented |
| Odor threshold | No information available |

| Property | Values | Note |
|-----------------------------|--------------------------|------|
| pH value | 10 - 11.4 | |
| Melting/freezing point | No information available | |
| Boiling point/boiling range | No information available | |
| Flash point | No information available | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limits in Air | | |
| Upper flammability limit | No information available | |
| Lower flammability limit | No information available | |

| | |
|--|---|
| 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

| Chemical Name | CAS No. | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|------------|---|--|----------------------------|
| Sodium carbonate | 497-19-8 | 2800 mg/kg bw | > 2000 mg/kg bw (US EPA 16 CFR 1500.40) | - |
| Silicic acid, aluminum sodium salt | 1344-00-9 | > 10000 mg/kg bw (OECD 401) | > 5000 mg/kg bw (OECD 402) | > 2.08 mg/L air (OECD 403) |
| Carbonic acid disodium salt, compd. with hydrogen peroxide | 15630-89-4 | 893 mg/kg bw (U.S. EPA Office of Pesticides and | > 2000 mg/kg bw (EPA Guideline; standard acute | - |

| | | | | |
|---|------------|--|--|--|
| | | Toxic Substances (1984) "Acute Exposure Oral Toxicity"; standard acute method; rat) | method; rabbit) | |
| Silicic acid, sodium salt | 1344-08-8 | 3400 mg/kg bw (Similar to OECD 401; standard acute method; rat) | > 5000 mg/kg bw (Read across data on AgSil TM 25 Potassium silicate solution; rat) | > 2.06 mg/L air (Read across data AgSil TM 25 Potassium silicate solution; EPA OPPTS 870.1300; standard acute method; rat) |
| Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts | 68585-34-2 | >2001 mg/kg | - | - |

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 (non-household setting) 331

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 | OECA (SARA 302) TRQ |
|------------------|-----------|--------------------------|------------------------------------|---------------------|
| 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):

| Chemical Name | CAS No. | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------|-----------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulphuric acid | 7664-93-9 | 1000 lb | - | - | X |
| Sodium hydroxide | 1310-73-2 | 1000 lb | - | - | X |

California Proposition 65

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

Ethanol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Regulations (RTK)

| Chemical Name | CAS No. | Massachusetts |
|---------------------------------|-----------|---------------|
| Sulfuric acid sodium salt (1:2) | 7757-82-8 | X |

| Chemical Name | CAS No. | Pennsylvania |
|---------------------------------|-----------|--------------|
| Sulfuric acid sodium salt (1:2) | 7757-82-8 | X |
| Sulphuric acid | 7664-93-9 | X |
| Sodium hydroxide | 1310-73-2 | X |

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

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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