



Material Safety Data Sheet

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Tuff
Product code 41776-40
Recommended Use Low Suds Laundry Detergent

Distributor

Swisher Hygiene Inc.
4725 Piedmont Row Drive,
Suite 400,
Charlotte, NC 28210

Chemical Emergency Phone Number 800-424-9300 (Chemtrec)

Company Emergency Phone Number 800-444-4138

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance White Powder with Blue Specs
Physical state powder.
Odor Light lemon

Potential Health Effects

Acute toxicity

Eyes May cause mild transient irritation and dryness.
Skin May cause mild transient irritation and dryness.
Inhalation Heavy exposure to dust may cause transient respiratory tract irritation.
Ingestion Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name | CAS-No | Weight % |
|--------------------------------|-----------|----------|
| Sodium carbonate | 497-19-8 | < 25 |
| Sodium metasilicate | 6834-92-0 | < 3 |
| Nonyl phenol 4 mole ethoxylate | 9016-45-9 | < 2 |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Eye contact | Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately. |
| Skin contact | Flush with flowing water for 15 minutes. See physician if irritation persists. |
| Inhalation | Move to fresh air. Get medical attention immediately. |
| Ingestion | Drink large amounts of water, Do not induce vomiting. Consult physician immediately for additional advice and treatment. |
| Notes to physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

| | | | | |
|--|---|----------------|-------------------|--|
| Flammable Properties | Not flammable | | | |
| Flash point | none | | | |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment | | | |
| Explosion Data | | | | |
| Sensitivity to Mechanical Impact | none | | | |
| Sensitivity to Static Discharge | none | | | |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear | | | |
| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 1 | Flammability 0 | Physical Hazard 0 | Personal protection - |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Ensure adequate ventilation |
| Environmental precautions | Try to prevent the material from entering drains or water courses |
| Methods for Containment | Prevent further leakage or spillage if safe to do so |
| Methods for cleaning up | Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal. |

7. HANDLING AND STORAGE

| | |
|--|---|
| Advice on safe handling | KEEP OUT OF REACH OF CHILDREN Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers Keep container closed when not in use |
| Technical measures/Storage conditions | Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition. Do not store at temperatures above 120 ° F. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------------|-----------|--------------------|------------|
| Sodium metasilicate 6834-92-0 | | 2mg/m ³ | |

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment Institutional Environment

Eye/Face Protection Safety glasses are suggested when using this product in heavy use and institutional environments.
Consumer Environments Care should be taken to avoid Eye contact.
Skin and body protection Rubber gloves
Respiratory protection Unnecessary in open institutional environment.
Hygiene measures Practice good personal hygiene. Wash after handling.

Personal Protective Equipment Industrial Environment

Eye/Face Protection Splash-proof chemical goggles or face shield.
Skin and body protection Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene measures Practice good personal hygiene. Wash after handling. Shower at end of work period
Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | | | |
|-----------------------|------------------------------|-----------------------|--------------------------|
| Physical state | powder | Odor | Light lemon |
| Appearance | White Powder with Blue Specs | Odor Threshold | No information available |
| Color | white | | |

| Property | Values | Remarks Methods |
|---|--------------------|--------------------------|
| pH | 10.5-11.0 | No information available |
| Melting/freezing point | | No information available |
| 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 | | No information available |
| upper flammability limit | | |
| lower flammability limit | | |
| Explosion Limits | | |
| upper | | |
| lower | | |
| Vapor pressure | | No information available |
| Vapor density | | No information available |
| Specific Gravity | | No information available |
| Water solubility | completely soluble | No information available |
| Solubility in other solvents | | No information available |
| Partition coefficient: n-octanol/water | | No information available |

| | |
|----------------------------------|--------------------------|
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing Properties | No information available |

9.2 Other information

| | |
|---------------------------|--------------------------|
| Softening point | No information available |
| Molecular Weight | Mixture/mélange/mezcla |
| VOC Content(%) | No information available |
| Density VALUE | No information available |
| Bulk Density VALUE | 950 gm/l |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable |
| Incompatible products | Strong Oxidizers and Acids |
| Conditions to Avoid | None known based on information supplied |
| Hazardous Decomposition Products | Oxides of Carbon |
| Hazardous Polymerization | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|--------------------|--------------------|-----------------|
| Sodium carbonate | 4090 mg/kg (Rat) | | |
| Sodium metasilicate | 600 mg/kg (Rat) | | |
| Nonyl phenol 4 mole ethoxylate | 1310 mg/kg (Rat) | 2 mL/kg (Rabbit) | |

Chronic toxicity

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|------------------|--------------------------------|---|----------------------------|---|
| Sodium carbonate | 242: 120 h Nitzschia mg/L EC50 | 310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static | | 265: 48 h Daphnia magna mg/L EC50 |

| | | | | |
|---------------------|--|--|--|--------------------------------------|
| Sodium metasilicate | | 210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static | | 216: 96 h Daphnia magna mg/L EC50 |
|---------------------|--|--|--|--------------------------------------|

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated packaging Do not re-use empty containers

| Chemical Name | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Sodium carbonate | Corrosive |

14. TRANSPORT INFORMATION

Note Cleaning Compound, Not Regulated

Dot Not regulated
Proper shipping name Cleaning Compound, Not Regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

ICAO/IATA Not regulated

IMDG / IMO Not regulated

RID Not regulated

ADR/RID Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|--------|----------|
| TSCA | TSCA |
| DSL | Complies |
| NDSL | Complies |
| EINECS | - |
| ELINCS | - |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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.

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute Health Hazard | no |
| Chronic Health Hazard | no |
| Fire Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

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).

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.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

| | |
|----------------------|---|
| Prepared By | Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210 |
| Issuing date | 17-Oct-2011 |
| Revision Date | 17-Oct-2011 |
| Revision Note | No information available |
| Disclaimer | |

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Material Safety Data Sheet