



# SAFETY DATA SHEET

Issuing date 28-Sep-2011

Revision Date 19-Jun-2014

Version 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product name Swisher Detsol N

### Other means of identification

Product Code 40219-5

Document 40219-15/ 40219-5/ 40219-55

### Recommended use of the chemical and restrictions on use

Recommended use Heavy Duty Liquid Laundry Detergent

### Details of the supplier of the safety data sheet

#### **Distributor**

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

### Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)  
1-703-527-3887 (INTERNATIONAL)

Company Phone Number 800-444-4138

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2

### Label elements

#### **Emergency Overview**

#### **Warning**

#### **Hazard Statements**

Causes serious eye irritation

**Appearance** Transparent**Physical state** Liquid**Odor** Pleasant**Precautionary Statements - Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/face protection

**Precautionary Statements - Response**

- IF exposed or concerned: Get medical advice/attention
- 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
- IF ON SKIN: Wash with plenty of soap and water
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**Precautionary Statements - Storage**

Store in a well-ventilated place

**Precautionary Statements - Disposal**

Dispose of contents/container to approved disposal facility

**Hazards not otherwise classified (HNOC)****Other information**

- May be harmful if swallowed
- Causes mild skin irritation

Unknown Acute Toxicity

2.649% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name     | CAS-No   | Weight-% | Trade Secret |
|-------------------|----------|----------|--------------|
| 2-Butoxyethanol   | 111-76-2 | 1% - 10% | *            |
| Triethanolamine   | 102-71-6 | 1% - 3%  | *            |
| Isopropyl alcohol | 67-63-0  | 1% - 2%  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures for different exposure routes****General advice**

Show this safety data sheet to the doctor in attendance.

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.  |
| <b>Skin contact</b> | Wash with water for 15 minutes. See physician if irritation persists.   |
| <b>Inhalation</b>   | Remove to fresh air.  |
| <b>Ingestion</b>    | Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. |

**Most important symptoms/effects, acute and delayed**

|                      |   |
|----------------------|---|
| <b>Main Symptoms</b> | The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11. |
|----------------------|---|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

**Unsuitable Extinguishing Media** This product contains alcohols which will reduce the effectiveness of normal foam. Use alcohol-resistant foam instead.

**Specific hazards arising from the chemical**

Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

**Hazardous Combustion Products** If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrogen oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

Avoid exposure to fumes or vapors.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. |
|-----------------------------|---|

**Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

**Methods and materials for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. |
|--------------------------------|---|

|                                |   |
|--------------------------------|---|
| <b>Methods for cleaning up</b> | Mop up & flush to sanitary sewer with plenty of water. Floors may be slippery. Use care to avoid falls. |
|--------------------------------|---|

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on safe handling

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

#### Incompatible products

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Review Section 3 & 4 for Exposure Guidelines.

| Chemical Name                | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|------------------------------|-------------------------------|---|---|
| 2-Butoxyethanol<br>111-76-2  | TWA: 20 ppm                   | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup>  |
| Triethanolamine<br>102-71-6  | TWA: 5 mg/m <sup>3</sup>      | -   | -   |
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>      | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

NIOSH IDLH: Immediately Dangerous to Life or Health

### Appropriate engineering controls

#### Engineering Measures

Ensure adequate ventilation and that running water is available for washing eyes and skin

#### Individual protection measures, such as personal protective equipment

##### 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

Do not eat, drink or smoke when using this product. Practice good personal hygiene. Wash after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

#### Physical state Appearance Color

Liquid  
Transparent  
Violet

#### Odor Odor Threshold

Pleasant  
No information available

#### Property

#### Values

#### Remarks • Methods

|  |                          |       |
|--|--------------------------|-------|
| pH                                     | 9.5                      | ± 0.5 |
| Melting/freezing point                 | No information available |       |
| Boiling point/boiling range            | 100 °C / 212 °F          |       |
| Flash Point                            | No information available |       |
| Evaporation rate                       | GT 1.00                  |       |
| Flammability (solid, gas)              | No information available |       |
| Flammability Limits in Air             |                          |       |
| Upper flammability limit               | No information available |       |
| Lower flammability limit               | No information available |       |
| Vapor pressure                         | 17                       |       |
| Vapor density                          | 0.62                     |       |
| Specific Gravity                       | 1.038 ± .005             |       |
| Water solubility                       | Completely soluble.      |       |
| 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 |       |

**Other information**

|                    |                          |
|--------------------|--------------------------|
| Softening point    | No information available |
| Molecular Weight   | No information available |
| VOC Content(%)     | 6.1%                     |
| Density VALUE      | 8.66                     |
| Bulk Density VALUE | No information available |

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrogen oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Causes serious eye irritation  |
| <b>Inhalation</b>          | Inhalation of vapors in high concentration may cause irritation of the respiratory system. May cause central nervous system depression with nausea, headache, dizziness, and incoordination. |
| <b>Eye contact</b>         | Severely irritating to eyes.   |
| <b>Skin contact</b>        | Irritating to skin. May be absorbed through the skin in harmful amounts.   |

**Ingestion**

Gastrointestinal irritation, nausea and diarrhea. May cause additional affects as listed under "Inhalation".

| Chemical Name                | Oral LD50            | Dermal LD50                              | LC50 Inhalation                       |
|------------------------------|----------------------|--|---------------------------------------|
| 2-Butoxyethanol<br>111-76-2  | = 470 mg/kg ( Rat )  | = 99 mg/kg ( Rabbit )                    | = 450 ppm ( Rat ) 4 h                 |
| Triethanolamine<br>102-71-6  | = 4190 mg/kg ( Rat ) | > 20 mL/kg ( Rabbit ) > 16 mL/kg ( Rat ) | -                                     |
| Isopropyl alcohol<br>67-63-0 | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit )                  | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

**Information on toxicological effects****Symptoms**

No information available.

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

No information available.

**Mutagenic effects**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. The strong acid process for manufacturing isopropanol has been linked to an increased risk of cancer by IARC and OSHA. However, IARC and OSHA have found no evidence that isopropanol is carcinogenic to humans outside of that specific environment.

| Chemical Name                | ACGIH | IARC    | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| 2-Butoxyethanol<br>111-76-2  | A3    | Group 3 | -   | -    |
| Triethanolamine<br>102-71-6  | -     | Group 3 | -   | -    |
| Isopropyl alcohol<br>67-63-0 | -     | Group 3 | -   | -    |

**ACGIH:** (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

**IARC:** (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Group 2B - Possibly Carcinogenic to Humans

**OSHA:** (Occupational Safety & Health Administration)

X - Present

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Chronic toxicity**

No known effect based on information supplied.

**Aspiration hazard**

No information available.

**Numerical measures of toxicity - Product Information****Unknown Acute Toxicity**

2.649% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

|                               |              |
|-------------------------------|--------------|
| ATEmix (oral)                 | 2999 mg/kg   |
| ATEmix (dermal)               | 9771 mg/kg   |
| ATEmix (inhalation-gas)       | 2500000 mg/l |
| ATEmix (inhalation-dust/mist) | 28.6 mg/l    |
| ATEmix (inhalation-vapor)     | 8964 mg/l    |

**12. ECOLOGICAL INFORMATION**

This product contains a chemical which is listed as a marine pollutant according to DOT.

**Ecotoxicity**

35.649% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---------------|----------------------|------|-----------|
|---------------|----------------------|------|-----------|

|                              |   |  |   |
|------------------------------|---|--|---|
| 2-Butoxyethanol<br>111-76-2  | -   | 1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50   | 1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna mg/L EC50 |
| Triethanolamine<br>102-71-6  | 216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50   | 10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1000: 96 h Pimephales promelas mg/L LC50 static | -   |
| Isopropyl alcohol<br>67-63-0 | 1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50 | 1400000: 96 h Lepomis macrochirus µg/L LC50 11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through                   | 13299: 48 h Daphnia magna mg/L EC50   |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical Name                | Partition coefficient |
|------------------------------|-----------------------|
| 2-Butoxyethanol<br>111-76-2  | 0.81                  |
| Triethanolamine<br>102-71-6  | -2.53                 |
| Isopropyl alcohol<br>67-63-0 | 0.05                  |

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods**

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

**Contaminated packaging**

Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Isopropyl alcohol<br>67-63-0 | Toxic Ignitable                   |

**14. TRANSPORT INFORMATION****Note**

Cleaning Compound, Not Regulated

**DOT****Proper shipping name**  
**Marine Pollutant**

Not regulated

Cleaning Compound, Not Regulated

This product contains a chemical which is listed as a marine pollutant according to DOT.

## 15. REGULATORY INFORMATION

### International Inventories

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

### Legend:

**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

**DSL/NDSL** - 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name               | SARA 313 - Threshold Values % |
|-----------------------------|-------------------------------|
| 2-Butoxyethanol - 111-76-2  | 1.0                           |
| Isopropyl alcohol - 67-63-0 | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| 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

This product contains substances regulated by state right-to-know regulations.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
|---------------|------------|---------------|--------------|



|                              |   |   |   |
|------------------------------|---|---|---|
| 2-Butoxyethanol<br>111-76-2  | X | X | X |
| Triethanolamine<br>102-71-6  | X | - | X |
| Isopropyl alcohol<br>67-63-0 | X | X | X |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|             |                         |                       |                           |  |
|-------------|-------------------------|-----------------------|---------------------------|--|
| <b>NFPA</b> | <b>Health Hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Physical and chemical hazards</b> - |
| <b>HMIS</b> | <b>Health hazard</b> 1  | <b>Flammability</b> 0 | <b>Physical Hazards</b> 0 | <b>Personal protection</b> X           |

**Prepared By**

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**Revision Note**

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**Disclaimer**

The information provided in this Material 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 Safety Data Sheet**