1. Product and Company Identification

Material name: Dawn Professional Dish Detergent
Product Code: 95121663
Version #: 01
Revision date: 05-02-2012
Manufacturer Address: Procter & Gamble Professional
2 P&G Plaza
Cincinnati
Ohio
45202
US
P&G Telephone Number: 1-800-332-7787
Emergency 24-hr Telephone #: CHEMTREC 1-800-424-9300

2. Hazards Identification

Potential health effects

- Routes of exposure
  - Inhalation
  - Ingestion
  - Skin contact
  - Eye contact

  Health injuries are not known or expected under normal use. Accidental exposure will cause a mild but transient irritation.

- Eyes

  Health injuries are not known or expected under normal use. May cause transient irritation. Prolonged or repeated contact may be drying to skin.

- Skin

  Health injuries are not known or expected under normal use.

- Inhalation

  Health injuries are not known or expected under normal use.

- Ingestion

  Health injuries are not known or expected under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential environmental effects: Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCOHOL SULFATES, SODIUM SALT</td>
<td>68585-47-7</td>
<td>7-13</td>
</tr>
<tr>
<td>ALCOHOL ETHOXYSULFATE, SODIUM SALT</td>
<td>68585-34-2</td>
<td>5-10</td>
</tr>
<tr>
<td>AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES</td>
<td>70592-80-2</td>
<td>1-5</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>64-17-5</td>
<td>1-5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

- **Eye contact**
  After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

- **Skin contact**
  Rinse with water if prolonged contact occurs. Get medical attention if irritation develops and persists.

- **Inhalation**
  Move to fresh air.

- **Ingestion**
  Drink 1 or 2 glasses of water. If ingestion of a large amount does occur, call a poison control center immediately.
5. Fire Fighting Measures

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Extinguishing media

Protection of firefighters
This product will not support sustained combustion when in contact with open flame above the indicated flash point.

Specific hazards arising from the chemical
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Wear suitable protective clothing.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Clean-up methods and materials and containment measures
In case of spills, beware of slippery floors and surfaces. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. Handling and Storage

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 reach of children.

Storage
Store in a cool and well-ventilated place. Keep from freezing.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (64-17-5)</td>
<td>PEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1900 mg/m3</td>
</tr>
</tbody>
</table>

Engineering controls
Provide adequate ventilation.

Personal protective equipment

Eye / face protection
Not normally needed.

Skin protection
Not normally needed. For prolonged or repeated skin contact use suitable protective gloves. Recommended gloves include rubber or neoprene.

Respiratory protection
Not normally needed.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color
Dark blue or Yellow

Odor
Scented

Odor threshold
Not available.

Physical state
Liquid.

pH
8.7 - 9.3

Melting point
Not available.

Freezing point
30 °F (-1.1 °C)

Boiling point
Not available.
Flash point 115 - 135 °F (46.1 - 57.2 °C) Does not sustain combustion.
Evaporation rate Not available.
Vapor pressure Not available.
Specific gravity 1
Solubility (water) Not available.
Partition coefficient Not available.
Vapor pressure Not available.
Solubility (water) Not available.
Partition coefficient Not available.

10. Chemical Stability & Reactivity Information

Chemical stability This is a stable material.
Conditions to avoid Keep away from heat, sparks and open flame.
Hazardous decomposition products No hazardous decomposition products are known.
Hazardous polymerization Will not occur.

11. Toxicological Information

Toxicological data

Components Test Results
ETHANOL (64-17-5) Acute Inhalation LC50 Mouse: 0.039 mg/l 4 Hours
Acute Inhalation LC50 Rat: 20000 mg/l 10 Hours
Acute Oral LD50 Dog: 5.5 g/kg
Acute Oral LD50 Guinea pig: 5.6 g/kg
Acute Oral LD50 Mouse: 3450 mg/kg
Acute Oral LD50 Rat: 7060 mg/kg
Acute Oral LD50 Rat: 6.2 g/kg
Acute Other LD50 Mouse: 933 mg/kg
Acute Other LD50 Rat: 1440 mg/kg
ACOHOH ETHOXY SULFATE, SODIUM SALT (68585-34-2) Acute Oral Rat: 1.85 g/kg
ACOHOH SULFATES, SODIUM SALT (68585-47-7) Acute Oral LD50 Rat: >= 2000 mg/kg
AMINES, C10-16-ALKYLDIMETHYL, N-OXIDES (70592-80-2) Acute Oral LD50 Rat: 1330 mg/kg

Sensitization Not available.
Local effects Contact may irritate or burn eyes.
Chronic effects Hazardous by OSHA criteria. Hazardous by WHMIS criteria.
Skin corrosion/irritation Not available.

12. Ecological Information

Environmental effects Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. This product is intended for dispersive use and should not be disposed of directly into the environment.

13. Disposal Considerations

Waste codes Not regulated. Product is an aqueous solution that contains less than 24% alcohol.
Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
14. Transport Information

DOT
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity
ETHANOL: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

State regulations

ILLRTK
Contains no Illinois Right To Know toxic substances.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
ETHANOL (CAS 64-17-5) ALCOHOLIC BEVERAGES, WHEN ASSOCIATED WITH ALCOHOL ABUSE
ETHANOL IN ALCOHOLIC BEVERAGES
ETHYL ALCOHOL IN ALCOHOLIC BEVERAGES

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
ETHANOL (CAS 64-17-5) ALCOHOLIC BEVERAGES, WHEN ASSOCIATED WITH ALCOHOL ABUSE
ETHANOL IN ALCOHOLIC BEVERAGES
ETHYL ALCOHOL IN ALCOHOLIC BEVERAGES

ETHANOL (CAS 64-17-5)

RCRA HAZARDOUS WASTE NO. D001 (CAS 64-17-5) RCRA HAZARDOUS WASTE NO. D001 UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

US - Massachusetts RTK - Substance: Listed substance
ETHANOL (CAS 64-17-5)

US - New Jersey Community RTK (EHS Survey): Listed substance
ETHANOL (CAS 64-17-5)

US - New Jersey RTK - Hazardous substance
ETHANOL (CAS 64-17-5)

US - New Jersey RTK - Special Hazard: Listed substance
ETHANOL (CAS 64-17-5) ETHYL ALCOHOL SPEC_HAZAROUS

US - New Jersey RTK - Substances: Listed substance
ETHANOL (CAS 64-17-5) ETHYL ALCOHOL LISTED

US - Pennsylvania RTK - Hazardous Substances: Listed substance
ETHANOL (CAS 64-17-5)

Material name: Dawn Professional Dish Detergent
MSDS No. 95121663    Version #: 01    Revision date: 05-02-2012    Print date: 05-02-2012
ETHANOL (CAS 64-17-5) LISTED

**Canadian regulations**

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Inventory Status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

**16. Other Information**

**HMIS® ratings**

- Health: 2
- Flammability: 2
- Physical hazard: 0

**NFPA ratings**

- Health: 2
- Flammability: 2
- Instability: 0
- Special hazards:

**Disclaimer**

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.