1. Product and Company Identification

Material name: P&G Pro Line Tide 2X Professional Laundry Detergent
Product Code: 99446947
Version #: 04
Revision date: 11-01-2010
Manufacturer: Procter & Gamble Professional
Address: 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: Health injuries are not known or expected under normal use. Accidental exposure will cause a mild but transient irritation.
- Ingestion: Health injuries are not known or expected under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Skin: Health injuries are not known or expected under normal use. May cause transient irritation. Prolonged or repeated contact may be drying to skin.
- Eye contact: Health injuries are not known or expected under normal use.

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>ALKYL BENZENE SULFONATE</td>
<td>68081-81-2</td>
<td>7-13</td>
</tr>
<tr>
<td>ALCOHOL ETHOXYLATE</td>
<td>66455-14-9</td>
<td>5-10</td>
</tr>
<tr>
<td>2-AMINOETHANOL</td>
<td>141-43-5</td>
<td>1-5</td>
</tr>
<tr>
<td>ALCOHOL ETHOXYSULFATE, SODIUM SALT</td>
<td>68585-34-2</td>
<td>1-5</td>
</tr>
<tr>
<td>ALCOHOL SULFATES, SODIUM SALTS</td>
<td>68585-47-7</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. Get medical attention if any discomfort continues.

Ingestion
Drink 1 or 2 glasses of water. Get medical attention if any discomfort continues.
5. Fire Fighting Measures

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

Extinguishing media
Suitable extinguishing media

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

Protection of firefighters and precautions for firefighters
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>US. ACGIH Threshold Limit Values</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>STEL</td>
<td>6 ppm</td>
</tr>
<tr>
<td>2-AMINOETHANOL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(141-43-5)</td>
<td>TWA</td>
<td>3 ppm</td>
</tr>
<tr>
<td>ETHANOL (64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>2-AMINOETHANOL</td>
<td></td>
<td>6 mg/m3</td>
</tr>
<tr>
<td>(141-43-5)</td>
<td></td>
<td>3 ppm</td>
</tr>
<tr>
<td>ETHANOL (64-17-5)</td>
<td></td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</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
Blue.

Odor
Scented

Odor threshold
Not available.

Physical state
Liquid.

pH
8.1 - 8.5

Melting point
Not available.
Freezing point: Not available.
Boiling point: 210 - 216 °F (98.9 - 102.2 °C)
Flash point: 150 °F (65.6 °C)
Evaporation rate: Not available.
Vapor pressure: 18 - 21 mm Hg @ 68 F (20 C)
Specific gravity: 1.075
Solubility (water): Complete
Partition coefficient (n-octanol/water): Not available
VOC: 9.11 % estimated
Percent volatile: 30 - 40 %

10. Chemical Stability & Reactivity Information

Chemical stability: This is a stable material.
Conditions to avoid: None known.
Hazardous decomposition products: No hazardous decomposition products are known.
Hazardous polymerization: Will not occur.

11. Toxicological Information

Toxicological data
Components | Test Results
--- | ---
2-AMINOETHANOL (141-43-5) | Acute Dermal LD50 Rabbit: 1025 mg/kg
 | Acute Oral LD50 Guinea pig: 620 mg/kg
 | Acute Oral LD50 Mouse: 700 mg/kg
 | Acute Oral LD50 Rat: 10.2 g/kg
 | Acute Other LD50 Mouse: 50 mg/kg
 | Acute Other LD50 Rat: 67 mg/kg
ETHANOL (64-17-5) | Acute Inhalation LC50 Mouse: 0.039 mg/l 4.00 Hours
 | Acute Inhalation LC50 Rat: 20000 mg/l 10.00 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
 | Acute Oral LD50 Rat: 1.5 g/kg
ALCOHOL ETHOXYLATE (66455-14-9) | Acute Oral LD50 Rat: 0.7 - 1.3 g/kg
ALKYL BENZENE SULFONATE (68081-81-2) | Acute Oral LD50 Rat: 1.85 g/kg
ALCOHOL ETHOXYSULFATE, SODIUM SALT (68585-34-2) | Acute Oral LD50 Rat: >= 2000 mg/kg
ALCOHOL SULFATES, SODIUM SALTS (68585-47-7) | Acute Oral LD50 Rat: Not available.
 | Not available.
Sensitization | Not available.
Local effects | Not available.
Chronic effects | 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
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: 100.0000

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
No

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

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

US - California Proposition 65 - CRT: Listed date/Developmental toxin
ETHANOL (CAS 64-17-5) ETHYL ALCOHOL IN ALCOHOLIC BEVERAGES

2-AMINOETHANOL (CAS 141-43-5) LISTED
ETHANOL (CAS 64-17-5) LISTED

US - Massachusetts RTK - Substance: Listed substance
2-AMINOETHANOL (CAS 141-43-5) LISTED
ETHANOL (CAS 64-17-5) LISTED

US - New Jersey RTK - Special Hazard: Listed substance
2-AMINOETHANOL (CAS 141-43-5) SPEC_HAZAROUS
ETHANOL (CAS 64-17-5) SPEC_HAZAROUS

US - New Jersey RTK - Substances: Listed substance
2-AMINOETHANOL (CAS 141-43-5) LISTED
ETHANOL (CAS 64-17-5) LISTED

US - Pennsylvanian RTK - Hazardous Substances: Listed substance
2-AMINOETHANOL (CAS 141-43-5) LISTED
ETHANOL (CAS 64-17-5) LISTED
US - Rhode Island RTK - Hazardous Substances: Listed substance
2-AMINOETHANOL (CAS 141-43-5) LISTED
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

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.