

Procter&Gamble

Professional®

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name P&G Pro Line Tide 2X Professional Laundry Detergent
Product Code 96739882
Version # 07
Revision date 02-10-2014
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. Ingestion. Skin contact. Eye contact.

Eyes

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

Skin

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

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 minimal.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--------------------------------------------|------------|---------|
| ALKYL BENZENE SULFONATE, SODIUM SALT | 68081-81-2 | 7-13 |
| ALCOHOL ETHOXYLATE | 66455-14-9 | 5-10 |
| ALCOHOL ETHOXYSULFATE, SODIUM SALT | 68585-34-2 | 1-5 |
| ALCOHOL SULFATES, SODIUM SALTS | 68585-47-7 | 1-5 |
| ALKYL BENZENE SULFONATE, ETHANOLAMINE SALT | 68910-32-7 | 1-5 |
| ETHANOL | 64-17-5 | 1-5 |

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 | Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| 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. |
| Protective equipment 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

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------|------|----------|
| ETHANOL (64-17-5) | STEL | 1000 ppm |

| | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| Form | Liquid. |
| Odor | Scented |
| pH | 8.1 - 8.5 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | 210 - 216 °F (98.89 - 102.22 °C) |
| Flash point | 150.00 °F (65.56 °C) |
| Evaporation rate | Not available. |
| Vapor pressure | Not available. |
| Specific gravity | 1.075 |

| | |
|------------------------------------------------|----------------|
| Solubility (water) | Complete |
| Partition coefficient (n-octanol/water) | Not available |
| VOC | Not available. |

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 |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETHANOL (64-17-5) | Acute Inhalation LC50 Mouse: 39 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 Acute Oral LD50 Rat: 1.5 g/kg |
| ALCOHOL ETHOXYLATE (66455-14-9) | |
| ALKYL BENZENE SULFONATE, SODIUM SALT (68081-81-2) | Acute Oral LD50 Rat: 0.7 - 1.3 g/kg |
| ALCOHOL ETHOXYLSULFATE, SODIUM SALT (68585-34-2) | Acute Oral LD50 Rat: > 2000 mg/kg |
| ALCOHOL SULFATES, SODIUM SALTS (68585-47-7) | Acute Oral LD50 Rat: >= 2000 mg/kg |
| ALKYL BENZENE SULFONATE, ETHANOLAMINE SALT (68910-32-7) | Acute Oral LC50 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

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|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.

US CERCLA Hazardous Substances: Reportable quantity

ETHANOL (CAS 64-17-5)

US CERCLA Hazardous Substances: Reportable quantity RCRA
HAZARDOUS WASTE NO. D001 - 100 lbs
US CERCLA Hazardous Substances: Reportable quantity
UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF
IGNITABILITY 100 lbs

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
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

US - Connecticut Hazardous Material Survey: Listed substance

ETHANOL (CAS 64-17-5)

LISTED

US - Illinois Chemical Safety Act: Listed substance

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)

LISTED

US - New Jersey Community RTK (EHS Survey): Listed substance

US - New Jersey RTK - Hazardous substance

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)

LISTED

US - Rhode Island RTK - Hazardous Substances: Listed substance

Contains no Rhode Island Right To Know hazardous substances.

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

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|-----------------------------------------------|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*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: 1*
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 1
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.