

Procter & Gamble

Professional[®]

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Dawn Ultra Heavy Duty Degreaser concentrate
Product Code 98668774
Version # 03
Revision date 05-04-2011
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.
Eyes Causes eye damage.
Skin Contact may irritate or burn skin.
Inhalation Irritating to mucous membranes.
Ingestion Irritating to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Large ingestions may cause dizziness, incoordination, and headache.

Potential environmental effects

May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
DIPROPYLENE GLYCOL N-BUTYL ETHER	29911-28-2	5 - 10
MONOETHANOLAMINE	141-43-5	5-10

4. First Aid Measures

First aid procedures

Eye contact Immediately rinse with water for several minutes. Hold eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention.
Skin contact Wash skin with soap and water. Rinse with plenty of water. Get medical attention if irritation develops and persists.
Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion Call a physician or poison control center immediately. Do NOT induce vomiting. Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give liquid to an unconscious person.

5. Fire Fighting Measures

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Extinguishing media

Suitable extinguishing media Water. Water spray. Dry powder. Carbon dioxide (CO₂).

Protection of firefighters

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. Do not contaminate water.

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.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Use personal protective equipment as required. Use only in area provided with appropriate exhaust ventilation. Do not get this material in contact with skin or eyes. Wash hands thoroughly after handling. Keep out of reach of children.

Storage

Store in properly labeled containers. Keep container tightly closed in a cool, well-ventilated place. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
MONOETHANOLAMINE (141-43-5)	STEL	6.0000 ppm
	TWA	3.0000 ppm

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

Components	Type	Value
MONOETHANOLAMINE (141-43-5)	PEL	3.0000 ppm
		6.0000 mg/m ³

Engineering controls

Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Eye / face protection

Wear chemical goggles or face shield.

Skin protection

Rubber gloves.

Respiratory protection

Not normally needed.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color

Dark violet.

Odor

Pine

Odor threshold

Not available.

Physical state

Liquid.

pH

12 - 13

Melting point

Not available.

Freezing point

<= 32 °F (<= 0 °C)

Boiling point

180 - 212 °F (82.2 - 100 °C)

Flash point

>= 147 °F (>= 63.9 °C)

Evaporation rate

Not available.

Vapor pressure

Not available.

Specific gravity

1.022

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)	Not available
VOC	8.89 % estimated
Percent volatile	42.61 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	This is a stable material. Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Do not mix with other chemicals.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
Hazardous polymerization	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
MONOETHANOLAMINE (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
DIPROPYLENE GLYCOL N-BUTYL ETHER (29911-28-2)	Acute Inhalation LC50 0.05 mg/l

Sensitization	Not available.
Acute effects	Causes burns.
Local effects	Irritating to respiratory system.
Skin corrosion/irritation	Hazardous by OSHA criteria.

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.
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13. Disposal Considerations

Waste codes	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]
Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Basic shipping requirements:

Proper shipping name	Corrosive liquid, basic, organic, n.o.s. (monoethanolamine, 1-octyl 2-pyrrolidinone), LTD QTY [may be shipped as a CONSUMER COMMODITY ORM-D through 12/31/2013]
Hazard class	8
UN number	3267
Packing group	III

Additional information:

ERG number	153
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IMDG

Basic shipping requirements:

Proper shipping name	Corrosive liquid, basic, organic, n.o.s. (monoethanolamine, 1-octyl 2-pyrrolidinone), LTD QTY
Hazard class	8
UN number	3267
Packing group	III

IATA

Basic shipping requirements:

Proper shipping name Corrosive liquid, basic, organic, n.o.s. (monoethanolamine, 1-octyl 2-pyrrolidinone), LTD QTY
Hazard class 8
UN number 3267
Packing group III

Notes DO NOT SHIP BY AIR. Does not meet packaging requirements for air shipments.

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/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

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 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

ILLRTK

Contains no Illinois Right To Know toxic substances.

US - Connecticut Hazardous Material Survey: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) LISTED

US - Massachusetts RTK - Substance: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) LISTED

US - New Jersey RTK - Special Hazard: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) SPEC_HAZAROUS

US - New Jersey RTK - Substances: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) LISTED

US - Pennsylvania RTK - Hazardous Substances: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) LISTED

US - Rhode Island RTK - Hazardous Substances: Listed substance

MONOETHANOLAMINE (CAS 141-43-5) 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.

Further information HMIS® is a registered trade and service mark of the NPCA.

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: 3*
Flammability: 2
Physical hazard: 0

NFPA ratings Health: 3
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.