

STAPLES CONTRACT & COMMERCIAL, INC.  
500 Staples Drive  
Framingham, MA 01702 USA  
Business Phone: 1-888-322-0912  
24-HR MEDICAL AND EMERGENCIES: 1-888-322-0912

MSDS #: BPR0730		
<u>Hazard Rating</u>	<u>HMIS</u>	<u>NFPA</u>
Health	2	2
Flammability	0	0
Physical Hazards	0	-
Reactivity	-	0
Special	None	None

# MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** POWER CLEAN™

This MSDS applies to Manufacturer Item Numbers: BPR0732QM-A and STP18546

MSDS CODE: BPR0730.0913

Prepared by: Regulatory Specialist, Staples Brand Group, (508) 253-5000

GENERIC DESCRIPTION

Cleaner/Degreaser

DATE ISSUED

09-16-2013

SUPERSEDES

08-30-2013

## SECTION 2: HAZARDS IDENTIFICATION

**Emergency overview:** Corrosive. May cause burns to skin and eyes.

**Potential short term health effects:**

**Routes of exposure:** Eyes, skin contact, skin absorption, inhalation, and ingestion.

**Eyes:** May cause permanent eye damage, including blindness.

**Skin:** May cause chemical burns.

**Inhalation:** May cause irritation or chemical burns of throat and respiratory tract.

**Ingestion:** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Target organs:** Eyes, skin, respiratory system, and gastrointestinal tract.

**Chronic effects:** Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. Based on published data, repeated and prolonged contact with ethanolamine may cause liver and kidney damage; these effects have not been observed in humans. Although animal toxicity values do not meet criteria, ethane-1,2-diol is toxic to humans.

**Signs and symptoms:** Symptoms may include redness, edema, drying defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	% by Wt.	LC <sub>50</sub>	LD <sub>50</sub> (oral)
Ethoxylated surfactants	Proprietary	7-13	Not available	1,410 mg/kg, rat
Ethanolamine	141-43-5	5-10	1210 mg/m <sup>3</sup> , mouse	1,720 mg/kg, rat
Propoxypropanol	1569-01-3	5-10	Not available	2,800 mg/kg, rat
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl	126-86-3	3-7	Not available	Not available
Non-ionic ethoxylated blend	Trade secret	3-7	Not available	Not available
Dipropylene glycol butyl ether	29911-28-2	1-5	Not available	3,700 mg/kg, rat
Ethane-1,2-diol	107-21-1	0.1-1	Not available	7,500 mg/kg, rat
Tetrasodium EDTA	64-02-8	0.1-1	Not available	>2.0 g/kg, rat, ip
Octoxynol	9036-19-5	0.1-1	Not available	4,190 mg/kg, rat
Acid Red 27	915-67-3	0.1-1	Not available	Not available

Balance is water and similar non-hazardous ingredients. Contains fragrance.

## SECTION 4: FIRST AID MEASURES

**Emergency First Aid Procedures:**

**Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation occurs and persists, seek medical advice.

**Skin:** Flush immediately with plenty of water for at least 15 minutes. If irritation occurs and persists, seek prompt medical advice.

**Inhalation:** If symptoms develop, move victim to fresh air and seek medical advice.

**Ingestion:** Rinse mouth with plenty of water and seek medical attention. Do not induce vomiting and do not give anything by mouth to an unconscious or convulsing person.

## SECTION 5: FIRE FIGHTING MEASURES

**Flammable properties:** Not flammable by WHMIS/OSHA criteria. **Flash Point:** None  
**Extinguishing Media:** Use standard fire fighting measures to extinguish fires involving this material (water spray, dry chemicals, CO<sub>2</sub>, or foam). **Special Fire Fighting Procedures:** Firefighters should wear full protective clothing including self contained breathing apparatus. **Unusual Fire and Explosion Hazards:** May include but are not limited to: oxides of carbon and oxides of nitrogen.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Containment and Clean up:** Floor may become slippery. Stop leak if you can do so without risk. Small spills may be absorbed with non-reactive absorbent. Rinse area with water. Recover liquid with wet mop or vacuum. Keep spill out of sewers and waterways. Follow good industrial hygiene practices. Wash thoroughly after handling.

## SECTION 7: HANDLING AND STORAGE

Avoid contact with eyes and skin. Use only with adequate ventilation. Wash thoroughly after handling. Follow good industrial hygiene practices. Do not eat or drink while handling. Store in original containers away from incompatible materials. Keep out of reach of children. Keep from freezing.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Limits:

Ingredient	ACGIH-TLV	OSHA-PEL
Ethane-1,2-diol #107-21-1	Ceiling: 100 mg/m <sup>3</sup>	Not available
Ethanolamine #141-43-5	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm
Tetrasodium EDTA #64-02-8	Not available	Not available
Dipropylene glycol butyl ether #29911-28-2	Mist: 10 mg/m <sup>3</sup>	Not available

**Engineering Controls:** General ventilation normally adequate.  
**Respiratory Protection:** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.  
**Protective Gloves:** Use chemical resistant gloves including neoprene, rubber or vinyl.  
**Eye Protection:** Use splash proof, chemical- resistant goggles.  
**Other Protective Measures:** Use good personal hygiene practices. Wash hands after handling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Odor:</b> Clear, Purple Liquid/Grape odor	<b>Specific Gravity:</b> 1.01
<b>Odor threshold:</b> Not available	<b>Vapor Pressure:</b> Not available
<b>pH (Conc.):</b> 10.0-12.0 <b>pH (Diluted 1:64):</b> 10.0 – 11.0	<b>Vapor Density:</b> Not available
<b>Boiling Point:</b> >212°F	<b>Freezing Point:</b> Not available
<b>Solubility in Water:</b> Soluble	<b>Evaporation Rate:</b> Not available
<b>V.O.C. Content (by weight):</b> <15% (<150 g/L)	<b>Coefficient of water/oil distribution:</b> Not available

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable **Conditions to Avoid:** Do not mix with other chemicals.  
**Incompatibility:** Acids and oxidizers. **Hazardous Polymerization:** Will not occur.  
**Hazardous Decomposition Products:** May include and are not limited to: oxides of carbon and oxides of nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Effects of acute exposure:

**Eyes:** May cause permanent eye damage, including blindness.  
**Skin:** May cause chemical burns.  
**Inhalation:** May cause irritation or chemical burns of throat and respiratory tract.  
**Ingestion:** Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

**Chronic effects:** Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. Based on published data, repeated and prolonged contact with ethanolamine may cause liver and kidney damage; these effects have not been observed in humans. Although animal toxicity values do not meet criteria, ethane-1,2-diol is toxic to humans.

**Sensitization:** Non-hazardous by WHMIS/OSHA criteria.  
**Mutagenicity:** Non-hazardous by WHMIS/OSHA criteria.  
**Carcinogenicity:** Non-hazardous by WHMIS/OSHA criteria.  
**Reproductive effects:** Non-hazardous by WHMIS/OSHA criteria.  
**Teratogenicity:** Non-hazardous by WHMIS/OSHA criteria.  
**Name of Toxicologically Synergistic Products:** Not available.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity – Acute Toxicity Data:

#### Freshwater Algae

Ethane-1,2-diol #107-21-1  
Ethanolamine #141-43-5

96 Hr EC<sub>50</sub> Pseudokirchneriella subcapitata: 6500 - 13000 mg/L  
72 Hr EC<sub>50</sub> Desmodesmus subspicatus: 15 mg/L

#### Freshwater Fish

Dipropylene glycol butyl ether #29911-28-2

96 Hr LC<sub>50</sub> Poecilia reticulata: 841 mg/L [static]

Ethane-1,2-diol #107-21-1

96 Hr LC<sub>50</sub> Oncorhynchus mykiss: 41000 mg/L;  
96 Hr LC<sub>50</sub> Oncorhynchus mykiss: 14 - 18 mL/L [static];  
96 Hr LC<sub>50</sub> Lepomis macrochirus: 27540 mg/L [static];  
96 Hr LC<sub>50</sub> Oncorhynchus mykiss: 40761 mg/L [static];  
96 Hr LC<sub>50</sub> Pimephales promelas: 40000 - 60000 mg/L [static];  
96 Hr LC<sub>50</sub> Poecilia reticulata: 16000 mg/L [static]

Ethanolamine #141-43-5

96 Hr LC<sub>50</sub> Pimephales promelas: 227 mg/L [flow-through];  
96 Hr LC<sub>50</sub> Brachydanio rerio: 3684 mg/L [static];  
96 Hr LC<sub>50</sub> Lepomis macrochirus: 300-1000 mg/L [static];  
96 Hr LC<sub>50</sub> Oncorhynchus mykiss: 114-196 mg/L [static];  
96 Hr LC<sub>50</sub> Oncorhynchus mykiss: >200 mg/L [flow-through]

#### Water Flea

Ethane-1,2-diol #107-21-1  
Ethanolamine #141-43-5  
Tetrasodium EDTA #64-02-8

48 Hr EC<sub>50</sub> Daphnia magna: 46300 mg/L  
48 Hr EC<sub>50</sub> Daphnia magna: 65 mg/L  
24 Hr LC<sub>50</sub> Daphnia magna: 625, 000 ug/L

**Persistence/degradability:**

Not available

**Bioaccumulation/accumulation:**

Not available

**Mobility in environmental media:**

Not available

**Environmental effects:**

Not available

**Aquatic toxicity:**

Not available

**Partition coefficient:**

Not available

**Chemical fate information:**

Not available

**Other adverse effects:**

Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Information:** Dispose of in compliance with all applicable regulations.

## SECTION 14: TRANSPORT INFORMATION

**24-HR EMERGENCY PHONE:** 1-888-322-0912

### U.S. DOT:

**Hazard Class:** 8

**Packing Group:** III

**Label:** Corrosive

**Proper Shipping Name:** UN3267, Corrosive liquid, basic, organic, n.o.s. (contains Ethanolamine)

**Special provisions:** IB3, T7, TP1, TP28

**Special DOT Information:** When packaged in containers of 1.3 gallon (4.9 L) or less, this product may be shipped under the 49 CFR 173.150 packaging exemption for Limited Quantity and is Consumer Commodity ORM-D.

**ERG number:** 153

### CANADA TDG:

**Hazard Class:** 8

**Packing Group:** III

**Label:** Corrosive

**Proper Shipping Name:** UN3267, Corrosive liquid, basic, organic, n.o.s. (contains Ethanolamine)

**Special provisions:** 16

**Packaging exceptions:** When packaged in containers of 5 liter (1.3 gallons) or less, this product qualifies for the packaging exemption of Limited Quantity and is Consumer Commodity ORM-D.

## SECTION 15: REGULATORY INFORMATION

**CANADIAN FEDERAL REGULATIONS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Ingredient Disclosure List:**

Ethane-1,2-diol #107-21-1 1%  
Ethanolamine #141-43-5 1%  
Tetrasodium EDTA #64-02-8 1%  
Dipropylene glycol monobutyl ether #29911-28-2 1%  
Acid Red 27 #915-67-3 1%

**WHMIS Classification:** Class E – Corrosive Material

**WHMIS Labeling:**



**US FEDERAL REGULATIONS**

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

**California Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Ingredient	CAS#	State Right-to-Know	SARA EHS Sect. 302 TPQ(lbs)	SARA EHS Sect. 304 RQ(lbs)	CERCLA RQ (lbs)
Ethane-1,2-diol	107-21-1	CA, MA, MN, NJ, NY, PA, RI	N/A	N/A	5,000
Ethanolamine	141-43-5	NJ, MA, PA	N/A	N/A	N/A

N/A = Not applicable

**SARA 311/312 Hazard Categories:**

Immediate/Acute: Yes

Delayed/Chronic: No

Fire: No

Pressure: No

Reactivity: No

**SARA Section 313 Toxic Chemicals:** Ethane-1,2-diol #107-21-1

**Inventories**

**On Inventory (yes/no)\***

Canada's Domestic Substances List (DSL)

YES

Canada's Non-Domestic Substances List (NDSL)

NO

United States' Toxic Substances Control Act (TSCA)

YES

\*A "Yes" indicates that all components of this product comply with the inventory requirements.

## SECTION 16: OTHER INFORMATION

Always follow label directions carefully when using this or any other chemical product. If information about this product is required, please contact Staples at 1-888-322-0912 or visit our website at [www.staples.com](http://www.staples.com). Keep MSD Sheets filed and organized in an area accessible to workers according to all applicable regulations.

*This MSDS was prepared for the sole purpose of compliance with the U.S. Occupational Safety and Hazard Administration's Hazard Communication Standard and Canada's Controlled Product Regulations and that is its only intended use. All information contained in this MSDS is provided to the best of Staples Contract & Commercial, Inc's knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.*