



The Procter & Gamble Company  
P&G Household Care  
Fabric & Home Care Innovation Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217-1087

## MATERIAL SAFETY DATA SHEET

MSDS #: **RQ0806316**  
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### SECTION I - PRODUCT IDENTIFICATION

**Identity:** Automatic Dishwashing Detergent Gel

**Finished Product**

**Brands:** CASCADE GEL and CASCADE EXTRA ACTION GEL (Fresh Scent, Orange Scent, Lemon Scent, Orchard Splash Scent, Summertime Showers Scent, Cascade Gel with Extra Bleach Action (Lemon Scent), and Cascade Extra Action Gel)

**P&G Telephone Number:** 800-765-5516

or call Local Poison Control Center or your physician.

Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300

### SECTION II - HAZARDS IDENTIFICATION

**Potential Health Hazards (Acute and Chronic):** (See Section 11 for more information)

Ingestion: Harmful if swallowed or put in mouth. Esophageal irritation possible with exposure to more than one mouthful. Do not induce emesis or further irritation may result from re-exposure.

Eye Contact: Contact may cause irritation.

Skin Contact: Irritating to skin.

Inhalation: None.

**Signs and Symptoms of Exposure:**

Ingestion: Irritation of the mouth and gastrointestinal tract, with nausea, vomiting, and diarrhea. Substantial ingestions may produce hematemesis and possibly moderate to severe gastrointestinal irritation. Esophageal stricture formation is not expected.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness of the eyes.

Skin Contact: May result in transient skin irritation (redness, swelling) upon prolonged contact with undiluted material.

Inhalation: None known.

Medical Conditions Generally Known to be Aggravated by Exposure: None known.

**Potential Environmental Effects:** (See Section 12 for more information)

### SECTION III - COMPOSITION AND INGREDIENTS

**Ingredients/Chemical Name:** Water softeners (potassium and/or sodium complex phosphates, and/or carbonate salts), cleaning agent (chlorine bleach), dishware, flatware, and dishwasher protection agents (sodium and potassium silicates), water, thickening agent, buffering agent, stabilizing agent, colorant, and perfume.

This mixture, when tested as a whole, is considered an eye and skin irritant within the meaning of the OSHA Hazard Communication Standard.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Hypochlorous acid, sodium salt	Bleach	7681-52-9	5-10%	8.91 g/kg (rats, oral)
Sodium hydroxide	Caustic soda	1310-73-2	1-5%	500 mg/kg (10% solution, rats, oral)

### SECTION IV – FIRST AID INFORMATION

**First Aid Procedures:**

Ingestion: Give water or milk to dilute. Call a physician. Do not induce emesis.

Eye Contact: Flush eyes thoroughly with water.

Skin Contact: Rinse exposed area with water.

Inhalation: Move exposed individual to fresh air.

**Note to Physician:** (if applicable)

**Other:** Consumer product package has the following precautionary statement: CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN. KEEP OUT OF REACH OF CHILDREN. CAUTION: DANGEROUS FUMES FORM WHEN MIXED WITH OTHER PRODUCTS. Do not mix with dishwashing liquids, ammonia, or other cleaning products. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. KEEP OUT OF REACH OF CHILDREN. Do not let young children use bottle or touch product in dishwasher. Not for hand dishwashing. Do not reuse bottle. Screw on protective cap tightly after use. FIRST AID TREATMENT: Contains potassium and sodium hydroxides, sodium silicate and chlorine bleach. If swallowed or gets in mouth, rinse mouth, give a glassful of water or milk and call a Poison Control Center or doctor immediately. DO NOT INDUCE VOMITING. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water.

### SECTION V - FIRE FIGHTING INFORMATION

**Flash Point (Method Used):** > 200°F / >93°C PM Closed Cup

**Flammable Properties:** Product is non flammable.

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

**Explosive Limits:** UEL: N/K LEL: N/K

**Auto-ignition Temperature:** N/K

**Hazardous Combustion Products:** Dangerous hypochlorous acid and irritating chloramine gas are released.

**Explosion Data (Sensitivity to Mechanical Impact):** N/A

**Explosion Data (Sensitivity to Static Discharge):** N/A

**Extinguishing Media:**

Suitable: CO<sub>2</sub>, water and/or dry chemical

Unsuitable: N/K

**Protection of Firefighters:**

Specific Hazards Arising from the Material: Acids and ammonia. Contact with aluminum or iron-containing compounds may release hydrogen gas.

Protective Equipment and Precautions for Firefighters: Normal fire fighting gear.

## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Prior to exposure, cover any exposed skin and eyes. Peel off and wash any clothing that becomes wet with the product.

**Environmental Precautions:** Products covered by this MSDS, in their original form, when disposed as waste, are corrosive hazardous waste, D002, according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state/provincial and federal regulations.

**Methods for Containment:** Contain the spill. Try to prevent from reaching waterway or sewer. Products covered by this MSDS are a RCRA corrosive hazardous waste, D002, because of its high pH.

**Methods for Cleanup:** Do not landfill. Hazardous waste treatment to reduce pH is necessary prior to disposal.

**Other Information:** (if applicable)

## SECTION VII – HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** None

**Precautions To Be Taken in Storage:** None

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

Sodium Hypochlorite (CAS# 7681-52-9) WEEL STEL (15 min.) is:2 mg/m<sup>3</sup>

Sodium Hydroxide (CAS# 1310-73-2) OSHA Z-1 PEL is:2 mg/m<sup>3</sup>

### Engineering Controls:

**Personal Protective Equipment (PPE):** Cover clothes as spills will bleach your clothing.

**Eye/Face Protection:** For splash protection use chemical goggles. Eye wash fountain is desirable.

**Skin Protection:** Protective gloves (rubber, neoprene) should be used for any direct contact.

**Respiratory Protection:** None required with normal use.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):** Creamy white or yellow thick, viscous gel.

**Odor:** Products are perfumed.

**Odor Threshold:** N/K

**Physical State:** Liquid gel at 20°C.

**Vapor Pressure (mm Hg):** N/K

**Vapor Density (Air=1):** N/K

**Boiling Point:** N/K

**Partition Coefficient (n-octanol/water):** N/K

**Volatile Organic Compound (VOC):** Not applicable - Product not regulated for VOC Content at State or Federal level.

**Flash Point (Method Used):** > 200 °F / >93°C PM Closed Cup

**Solubility in Water:** Miscible with water. Contains small amounts of insoluble, colloidal size particles.

**Decomposition Temperature:** N/K

**Evaporation Rate (nBuOAc=1):** N/K

**Specific Gravity/Density:** 1.35 g/cc

**Melting/Freezing Point:** N/K

**Reserve Alkalinity:** ~3.0

**pH (1% solution):** 11.0 (neat): ~12.6

## SECTION X - STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Acids and ammonia. Contact with aluminum or iron-containing compounds may release hydrogen gas.

**Incompatible Materials:** Acids, ammonia, aluminum and iron-containing compounds.

**Hazardous Decomposition Products:** Dangerous hypochlorous acid and irritating chloramine gas are released.

**Possibility of Hazardous Reactions:** Contact with aluminum or iron-containing compounds may release hydrogen gas.

## SECTION XI - TOXICOLOGICAL INFORMATION

Irritating to eye and skin after prolonged, direct contact.

LD50: estimated acute oral LD50 (rats) >2g/kg

ED50: Not necessarily strongly emetic.

**Chronic Effects:** No chronic health effects reported.

**Target Organs:** No target organs reported.

**Carcinogenicity:** NTP: No IARC: No

## SECTION XII - ECOLOGICAL INFORMATION

Under normal and foreseeable uses, there are no concerns for aquatic organisms exposed to product ingredients at the anticipated environmental concentrations. Relevant environmental data have been reviewed and these indicate that the product is compatible with down-the-drain disposal routes, including municipal wastewater treatment processes and septic tank systems. This product is intended for dispersive use and should not be disposed of directly into the environment.

## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Products covered by this MSDS, in their original form, when disposed as waste, are corrosive hazardous waste, D002, according to Federal RCRA regulations (40 CFR 261).

*Non Household Setting (federal):* Do not landfill. Hazardous waste treatment to reduce pH is necessary prior to disposal.

*Non Household Setting (California):* Waste Code 561

*Household Use:* Product used in household may be disposed of in refuse or in sewer.

## SECTION XIV - TRANSPORT INFORMATION

**Transportation Information** – Products covered by this MSDS, in their original form, are regulated for transportation.

For finished packaged product transported by ground (US DOT): **Consumer Commodity ORM-D.**

For finished packaged product transported by sea (IMDG): **UN3266, Corrosive liquid, basic, inorganic, n.o.s. (sodium hypochlorite, sodium hydroxide), 8, PG III, Ltd Qty.**

For finished packaged product transported by air (IATA): **DO NOT SHIP. Finished product packaging does not meet air transport requirements.**

## SECTION XV - REGULATORY INFORMATION

### UNITED STATES - FEDERAL

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

**SARA chemicals:** This product contains the following SARA 313/302/304/311/312 chemicals:

**SARA 311:** Sodium Tripolyphosphate (CAS# 7758-29-4) (10-30%)

Sodium Hypochlorite (CAS# 7681-52-9) (5-10%)

Sodium Hydroxide (CAS# 1310-73-2) (1-5%)

### STATES:

This product is not subject to warning labeling under California Proposition 65.

California Registration Number: Not Applicable.

### State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS#	Level	States					CERCLA RQ
Sodium Tripolyphosphate	7758-29-4	10-30%	IL	MA	NJ	PA		5000 lbs
Sodium Hydroxide	1310-73-2	1-5%	IL	MA	NJ	PA	RI	1000 lbs
Sodium Hypochlorite	7681-52-9	5-10%	IL	MA	NJ	PA		100 lbs

### Canada

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

## SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health: 2	4=EXTREME
	Flammability: 0	3=HIGH
	Reactivity: 2	2=MODERATE
		1=SLIGHT
		0=NOT SIGNIFICANT

\*N/A. - Not Applicable

\*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

**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 assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.