The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
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MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

Identity: **Liquid Cleaner** **Concentrate**
Brands: Comet Cleaner With Bleach

P&G Telephone Number: 1-800-332-7787 or call Local Poison Control Center or your physician.
Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300 U.S. and Canada, or 1-703-527-3887 - for calls originating elsewhere.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)
Ingestion: May cause transient gastrointestinal irritation with nausea, vomiting and/or diarrhea.
Eye Contact: May cause moderate transient irritation.
Skin Contact: May cause moderate transient irritation or be drying to skin.
Inhalation: Mild mucous membrane irritant.

Signs and Symptoms of Exposure:
Ingestion: Irritation of the mouth and gastrointestinal tract, with nausea, vomiting, and diarrhea. 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: May cause irritation, coughing.
Medical Conditions Generally Known to be Aggravated by Exposure: N/K

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

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients: Water (CAS# 7732-18-5), sodium octyl sulfate (CAS# 142-31-4), sodium dodecyl sulfate (CAS# 151-21-3), sodium hypochlorite (CAS# 7681-52-9) and perfume.
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition Range	LD50/LC50
C12 alkyl sulfate	Sodium lauryl sulfate	151-21-3	1-5%	1288 mg/kg, oral, rat
Sodium Hypochlorite	Bleach	7681-52-9	1-5%	5800 mg/kg, oral, mouse
Sodium Hydroxide	Caustic Soda	1310-73-2	0.5-1.5%	325 mg/kg, oral, rabbit

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: Product package has the following precautionary statement:
CAUTION: MAY CAUSE EYE IRRITATION. EYE IRRITANT. Avoid contact with eyes. May be irritating to skin. For sensitive skin or prolonged use wear gloves. Do not mix with other cleaning products, as irritating fumes may be released. Contains Sodium Hypochlorite. In case of contact with eyes, flush thoroughly with water. Call a physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): >200°F/93.3°C

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: N/K

Explosion Data (Sensitivity to Mechanical Impact): N/K
Explosion Data (Sensitivity to Static Discharge): N/K

Extinguishing Media:
Suitable: CO_2, water and/or dry chemical
Unsuitable: N/K

Protection of Firefighters:
Specific Hazards Arising from the Material: N/K
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. Comet Cleaner with Bleach is 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: Store in accordance with local requirements for corrosive liquids.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: N/A

Engineering Controls: N/A

Personal Protective Equipment (PPE):

Eye/Face Protection: With normal use, no PPE is required. Care should be taken to avoid splashing into eyes. Eye protection provides an additional level of protection.

Skin Protection: With normal use, no PPE is required. If skin contact occurs, rinse immediately. Prolonged direct contact should be avoided.

Respiratory Protection: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear, slight yellow liquid.

Flash Point (Method Used): >200°F/93.3°C

Odor: Perfumed

Reserve Alkalinity: 0.87

Odor Threshold: N/A

Solubility in Water: Complete

Physical State: Liquid

Decomposition Temperature: N/K

Vapor Pressure (mm Hg): N/K

Evaporation Rate (nBuOAc=1): N/K

Vapor Density (Air=1): N/K

Specific Gravity/Density: 1.045

Boiling Point: N/K

Melting/Freezing Point: N/K

Partition Coefficient (n-octanol/water):

pH (neat): 12.6-13.4

Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: N/K

Incompatible Materials: Do not mix with other cleaning products.

Hazardous Decomposition Products N/K

Possibility of Hazardous Reactions: N/K

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): Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original packaged form, are regulated for transportation.

Ground Transport (US DOT): Consumer Commodity ORM-D.

Air Transport (IATA): DO NOT SHIP. Finished product packaging does not meet air transport requirements.

Marine/Water Transport (IMDG): UN1760, Corrosive liquid, n.o.s. (sodium hydroxide, sodium hypochlorite), 8, PGIII, Ltd. Qty.

SECTION XV - REGULATORY INFORMATION

United States

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

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals:

SARA 311: Sodium Hypochlorite (CAS# 7681-52-9) 1-5% & Sodium Hydroxide (CAS# 1310-73-2) 0.5-1%

California: This product has been evaluated and does not require 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	CERCLA RQ	State							
Sodium Hypochlorite	7681-52-9	1-5%	100 lbs	CA	CT	IL	LA	MA	MN	NJ	NY
				PA	TX						
Sodium Hydroxide	1310-73-2	0.5-1%	1000 lbs	CA	CT	IL	IN	KY	LA	MA	MN
				NC	NJ	NY	OR	PA	RI	TX	

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:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	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 assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.