



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: Febreze Stick & Refresh (Air Freshener) **Finished Product**
Brands/Scent Version(s): Clean Zest (99572306)
P&G Telephone Number: 1-866-695-1857 or call the Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

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

Ingestion: Contents harmful if swallowed. This is expected to be a highly unusual route of exposure for this product. Amounts that may be swallowed as a result of workplace handling are not likely to cause injury.

Eye Contact: Contact causes mild eye irritation.

Skin Contact: Moderately irritating to the skin. Prolonged / repeated direct contact with fragrance oils may result in skin sensitization.

Inhalation: Prolonged high level exposures may cause slight drowsiness, headache and / or mild respiratory tract irritation.

Signs and Symptoms of Exposure:

Ingestion: May cause minor gastrointestinal upset such as vomiting and nausea.

Eye Contact: May cause redness or stinging of eyes.

Skin: Prolonged contact may cause itching or dryness of skin.

Inhalation: May cause mild symptoms of nose or throat irritation or congestion.

Medical Conditions Generally Known to be Aggravated by Exposure: None

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

SECTION III - COMPOSITION AND INGREDIENTS

The fragrance contains one or more components at greater than 1% concentration (in the fragrance) which are considered hazardous per OSHA 29 CFR 1910.1200 (See Section VII for applicable exposure limits) and/or WHMIS under HPA.

Hazardous ingredients in the fragrance as defined by OSHA, 29 CFR 1910.1200.:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Proprietary Fragrance Mixture		Mixture	100%	
Benzyl Acetate	Benzyl Acetate	140-11-4	5 – 10%	2,490 mg/kg (Oral, rat)
Bornan-2-one	Camphor	76-22-2	5 – 10%	1,310 mg/kg (Oral, mouse)
Citral		5392-40-5	5 – 10%	

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

- Ingestion:** If ingested, do not induce vomiting. Call a physician or local Poison Control Center ASAP.
- Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Call a physician, if symptoms persist.
- Skin:** Remove any contaminated clothing or shoes. Thoroughly wash affected areas with soap and water. Flush with large quantities of water. If irritation develops or persists, call a physician.
- Inhalation:** If exposed to excessive levels, get fresh air. If symptoms persist, contact a physician

Note to Physician: (if applicable)

Other: Consumer product package has the following precautionary statements:

Front Panel:

CAUTION: EYE IRRITANT

See caution on back

Back Panel:

CAUTION: EYE IRRITANT. Avoid contact with eyes. Do not put fingers into product vent. Wash hands after handling perfume cartridge. **KEEP OUT OF REACH OF CHILDREN AND PETS.**

FIRST AID TREATMENT: Contains fragrance oils. If eye contact occurs rinse with plenty of water for 20 minutes. If eye irritation persists, consult a physician. **IF SWALLOWED;** do not induce vomiting, call a physician or poison control center immediately.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point and Method Used: For the neat fragrance: 170.6°F (77°C) - Closed Cup

Flammable Properties:

Upper Flammable Limit: unknown

Lower Flammable Limit: unknown

Explosive Limits: UEL: unknown LEL: unknown

Auto-ignition Temperature: Unknown

Hazardous Combustion Products: Unknown

Explosion Data (Sensitivity to Mechanical Impact): NA

Explosion Data (Sensitivity to Static Discharge): NA

Extinguishing Media:

Suitable: Use dry chemical, carbon dioxide, water spray or regular foam.

Unsuitable: None known.

Protection of Firefighters:

Specific Hazards Arising from the Material: No special hazards known.

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

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact of fragrance with skin and eyes. Wear rubber gloves. Provide maximum ventilation in the area of the spill to disperse vapors.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. Contain all spills.

Methods for Containment: For large spills: dike or contain spill. Absorb with inert material and dispose. Flush area with water. Prevent washings from entering waterways. Sorbents may be used. For small spills: Wipe up with paper towels or cloth.

Methods for Cleanup: Sweep up and place in suitable, clean dry containers for reclamation or disposal.

Other Information: N/A

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Do not use around open flame.

Precautions To Be Taken in Storage: Store in a cool dry place with adequate ventilation.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient	Exposure Limit Type*	Exposure Limit	Regulatory Agency
Benzyl Acetate [CAS # 140-11-4]	TWA	10 ppm	ACGIH
Camphor [CAS # 76-22-2]	TWA STEL	2 ppm 3 ppm	ACGIH ACGIH

Engineering Controls: Workplace should have sufficient general ventilation to disperse vapors in the event of a spill of the contents of this product.

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use. Avoid contact with eyes. Wash hands after handling refill cartridges. If eye contact occurs, rinse with plenty of water for 20 minutes.

Industrial setting: If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

Industrial setting: Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

Industrial setting: Use ventilation to minimize exposure to fragrance vapors. Prolonged exposure to high vapor concentrations may require respiratory protection as approved by local regulatory agencies (e.g., NIOSH) for organic vapors.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

Colorless to amber liquid

Odor: Perfume odor

Odor Threshold: NK

Physical State: Liquid.

Vapor Pressure (mm Hg): 0.25 mm Hg
(calculated)

Vapor Density (Air=1): NK

Boiling Point: NK

Partition Coefficient (n-octanol/water): NK

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

Flash Point (Method Used):

For the neat fragrance: 170.6°F (77°C) - Closed Cup

Reserve Alkalinity: N/A

Solubility in Water: NK

Decomposition Temperature: NK

Evaporation Rate (nBuOAc=1): NK

Specific Gravity/Density: NK

Melting/Freezing Point: NK

pH (100% solution): N/A

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable under ambient conditions. Does not undergo violent exothermic reactions at elevated temperatures or pressures.

Conditions to Avoid: Avoid ignition sources and open flames

Incompatible Materials: Avoid contact with strong oxidizers.

Hazardous Decomposition Products: When exposed to fire, produces carbon monoxide and other products of combustion.

Possibility of Hazardous Reactions: None known.

SECTION XI - TOXICOLOGICAL INFORMATION

The fragrance is a mixture of materials carefully formulated to comply with the International Fragrance Association (IFRA) and Procter & Gamble guidelines regarding their safe use in consumer products. The health hazards and precautions described herein are based on the toxicity of individual components, and testing of this or similar mixtures. This perfume is expected to be very low in oral and dermal toxicity. If exposed to high concentrations, transient eye, skin and respiratory irritation may occur.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.

NTP: No

IARC: No

SECTION XII - ECOLOGICAL INFORMATION

This product is expected to be safe at relevant environmental concentrations. It is intended for dispersive use and should not be disposed of directly into the environment. The used product is compatible with municipal solid waste systems and will not pose a hazard to the environment when the waste is properly handled.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with federal, state/provincial and local regulations.

Non-Household Setting (US Federal):

Product covered by this MSDS, in its original form, when disposed as waste, is considered non hazardous waste according to the federal RCRA Regulation (40CFR261). Disposal should be in accordance with the local, state and federal regulations.

Non-Household Setting (California): Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

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

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Product covered by this MSDS, in its original form, is not regulated for transportation.

Air Transport (IATA): UN3082, Environmentally Hazardous Substance, liquid, n.o.s. (aldehydes, alcohols), 9, III, Limited Quantity

Marine/Water Transport (IMDG): UN3082, Environmentally Hazardous Substance, liquid, n.o.s. (aldehydes, alcohols), 9, III, MARINE POLLUTANT, Limited Quantity

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: None

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 fragrance of this finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Conc. in fragrance	CERCLA RQ	State				
				IL	MA	NJ	PA	RI
Bornan-2-one	76-22-2	5 – 10%	N/A	X	X	X	X	X
3,7-Dimethyloctan-3-ol	78-69-3	5 – 10%	N/A			X		
Diphenyl Ether	101-84-8	0.1-1%			X	X	X	X
Ethyl Hexanoate	123-66-0	0.1-1%			X	X	X	
Isopentyl Acetate	123-92-2	0.1-1%		X	X	X	X	X
Pentyl Butyrate	540-18-1	0.1-1%				X		
Hexanal	66-25-1	0.1-1%		X	X	X	X	
Cis-Hex-3-en-1-ol	928-96-1	0.1-1%					X	
(R)-pMentha-1,8-diene	5989-27-5	0.1-1%				X		

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:	2	3=HIGH
	Reactivity:	1	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.