

SAFETY DATA SHEET



Issue date 29 March 2017

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This product is packaged for retail sale and intended for consumer use. The U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) does not apply to "consumer products" as defined by the U.S. Consumer Product Safety Act and Federal Hazardous Substances Act, including consumer products used in the workplace under typical duration and frequency of exposure as experienced by consumers when used for the intended purpose. This Safety Data Sheet (SDS) is provided as a courtesy to assist with proper use and safe handling. Applicable consumer product use and safety information is provided on the product label and is included for easy reference in Section 16 of this SDS. This SDS is designed to cover both U.S. and Canada. Differences between U.S. and Canadian requirements are noted where applicable.

Section 1: Identification of Product and Company

Product Name	Disinfectant Spray (Bag-On-Valve Aerosol 13.9 OZ (394 g))
Synonyms	Disinfectant Spray (Bag-On-Valve Aerosol 13.9 OZ (394 g)) Fresh Citrus & Thyme Eucalyptus Spearmint & Thyme Lavender Vanilla & Thyme
Product Use	Hard Surface Disinfecting
Restrictions on Use	Follow directions on the product label For sale in the U.S. only. Not for export.
Manufacturer Name Address	Seventh Generation, Inc. 60 Lake Street, Burlington, VT 05401, USA
Emergency Telephone Number Monday -Friday 8 am - 5 pm ET (except holidays) Outside these hours	U.S., Canada 1-800-211-4279 1-800-255-3924 (ChemTel)

Section 2: Hazards Identification

Classification	
U.S.	This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Canada	This product is considered hazardous under the WHMIS 2015.

Hazard Category	
Gases Under Pressure	Compressed Gas

Signal Word	
WARNING	

Hazard Statement(s)	
Contains gas under pressure; may explode if heated.	

Hazard Pictogram(s)	
Gas cylinder	

Precautionary Statement(s) - General - Consumer Products	
If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.	

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Precautionary Statement(s) - Prevention
None

Precautionary Statement(s) - Response
None

Precautionary Statement(s) - Storage
Protect from sunlight. Store in a well-ventilated place.

Precautionary Statement(s) - Disposal
None

Hazards not otherwise identified
None known

Percent ingredients with unknown acute toxicity
0% of the product consists of ingredients of unknown acute oral toxicity. Refer to Section 3.

Section 3: Composition, Information on Ingredients

Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the consumer product label.

Ingredient	Function	CAS Number	Concentration ¹	LD50 ²
Active ingredient		.	.	.
thymol (a component of thyme oil)	antimicrobial active	89-83-8	0.05%	980 mg/kg
Other ingredients:		.	99.95%	.
aqua (water)	diluent	7732-18-5		Not applicable
sodium lauryl sulfate	cleaning agent	151-21-3	$\leq 1\%$	1288 mg/kg
copper sulfate pentahydrate (bluestone)	water mineralizer	7758-99-8		960 mg/kg
citric acid	water softener	77-92-9		5400 mg/kg
sodium citrate	water softener	6132-04-3		5400 mg/kg
essential oils & botanical extracts*	fragrance	mixture		>2000 mg/kg
compressed air	propellant, non-flammable	.		.

*Fresh Citrus & Thyme: artemisia pallens (davana) flower oil, cananga odorata (ylang ylang) flower oil, citral, citrus aurantium dulcis (orange) peel oil, citrus paradisi (grapefruit) oil, gamma-decalactone, pelargonium graveolens (geranium) flower oil. d-Limonene is a component of these essential oils.

*Lavender Vanilla & Thyme: coriandrum sativum (coriander) fruit oil, cymbopogon martini (palmarosa) oil, eucalyptus globulus leaf oil, lavandula angustifolia (lavender) oil, lavandula hybrida (lavandin) oil, mentha viridis (spearmint) leaf oil, pelargonium graveolens (geranium) extract, pogostemon cablin (patchouli) oil, vanilla planifolia flower extract, vanillin. Linalool is a component of these essential oils.

*Eucalyptus Spearmint & Thyme: citrus sinensis (orange) fruit, eucalyptus globulus leaf oil, mentha arvensis (mint) leaf oil, mentha viridis (spearmint) leaf oil, rosmarinus officinalis (rosemary) leaf oil. d-Limonene is a component of these essential oils.

¹ Where ranges are shown, the exact concentration has been withheld as a trade secret.

² LD50 Acute oral toxicity (rat) – This is a value provided by the raw material supplier or scientific literature. It is not a value generated by Seventh Generation by testing using rats. Seventh Generation uses alternative, non-animal based methods and scientific literature to determine the safety classification of our products and their ingredients.

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Section 4: First Aid Measures

Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a doctor or poison control center for treatment advice.
Skin Contact	Rinse thoroughly with water if skin contact occurs. Call a physician if irritation develops or persists.
Ingestion	Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a doctor or poison control center. Do not give anything to an unconscious person.
Inhalation	Remove to fresh air. If breathing is affected, call a physician.
Notes to Physician	Treat symptomatically.
Most important symptoms and effects	Acute exposure may result in eye irritation.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Unsuitable Extinguishing Media	Not available.
Specific Hazards arising from the chemical mixture	Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion.
Hazardous Combustion Products	Not available.
Protective Equipment and Precautions for Firefighters	Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. Fire fighters should wear full protective clothing and self contained breathing apparatus as for surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions	
Industrial Setting	Wear appropriate personal protective equipment (refer to Section 8). Remove all sources of ignition.
Environmental Precautions	Avoid entry into lakes, streams, ponds or public waterways.
Methods for Containment and Cleaning Up	
Household Setting	Small spills and leaks may be cleaned up and disposed of in normal household trash (refer to section 13.).
Industrial Setting	Before attempting clean up, refer to hazard data given. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent extremely large spills from entering sewers or waterways. Dispose in accordance with all applicable local, state, and federal regulations.

Section 7: Handling and Storage

Safe Handling	
Household Setting	Use as directed on product label.
Industrial Setting	Wear appropriate personal protective equipment (refer to section 8).
Safe Storage	KEEP OUT OF REACH OF CHILDREN AND PETS. Store airtight at room temperature in original container in areas inaccessible to small children and keep container closed when not in use. Do not puncture or incinerate container. Nonrefillable container. Do not reuse or refill this container. Avoid freezing.
Storage Incompatibilities	Contents under pressure. Do not expose to heat or store at temperatures above 120°F / 50°C or in enclosed spaces that could overheat.

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Section 8: Exposure Controls, Personal Protection

Exposure Limits	None known.
Engineering Controls	Not applicable.
Personal Protective Equipment (PPE)	
Household Setting	No special precautions necessary as long as product is used as directed.
Industrial Setting	
Respiratory Protection	None required under normal conditions. General ventilation required.
Eye Protection	Goggles or other protective eye wear may be worn for protection.
Skin Protection	Gloves may be worn for protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Physical State	Liquid (bag-on-valve aerosol)
Color	Colorless (water-white)
Clarity	Clear
Odor	Fragranced. Characteristic of the ingredients
Odor Threshold	Not available.

pH	4.0 - 5.0
Melting Point	As per water.
Freezing Point	As per water.
Initial Boiling Point and Boiling Range	As per water.
Flash Point	Not available. Aqueous Solution.
Evaporation Rate	Not available.
Upper Explosive Limit (UEL)	Not applicable.
Lower Explosive Limit (LEL)	Not applicable.
Vapor Pressure (mmHg)	Not available.
Specific Gravity (H ₂ O = 1)	1.00 - 1.02
Relative Density	Not available.
Vapor Density (Air = 1)	Heavier than air.
Solubility in Water	Not available.
Partition Coefficient: n-octanol/water	Not available.
Viscosity	Not available.
VOC (weight %)	Not available.

Section 10: Stability and Reactivity

Reactivity	None known.
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	High Temperatures.
Incompatible Materials	
Household Setting	In general, cleaning products should not be mixed with other household chemicals, unless specifically provided for in the use directions.
Industrial Setting	None known.
Hazardous Decomposition Products	None known.

Section 11: Toxicological Information

Potential Route(s) of Exposure	Eyes. Skin. Ingestion. Inhalation.
Effects of Acute Exposure	
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.

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Dermal Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.
Inhalation Toxicity	>20 mg/L/4h, based on ingredients.
Eye Contact	Minimal eye irritant category IV, based on ingredients and in-vitro data.
Skin Contact	None to slight dermal irritant category IV, based on ingredients and in-vitro data.
Component Information	Refer to section 3 for ingredient LD50 (acute oral).
Effects of Chronic Exposure	Not expected to have chronic health effects.
Sensitization	Does not elicit any significant evidence of dermatological irritation or hypersensitivity, under normal use conditions.
Carcinogenicity	Not expected to have chronic health effects.
NTP	No Ingredients Listed
IARC	No Ingredients Listed
OSHA	No Ingredients Listed
Reproductive Effects	Not expected to have chronic health effects.
Teratogenicity	Not expected to have chronic health effects.
Mutagenicity	Not expected to have chronic health effects.
Target Organ Effects	Not expected to have chronic health effects.

Section 12: Ecological Information

Ecotoxicity	Not available.
Persistence and Degradability	Meets requirements for biodegradation based on ingredients.
Bioaccumulative Potential	Not applicable.
Mobility in Soil	Not available.
Environmental Fate	No adverse effects expected.

Section 13: Disposal Considerations

Product Waste	Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations.
Household Setting	Contents under pressure. DO NOT PUNCTURE OR INCINERATE! If empty: This container may be recycled in aerosol recycling centers where available. Before recycling or disposing, empty the can by using the product according to the label. Offer empty container for recycling. If recycling is not available, wrap the empty container and discard in trash. If partly filled: Call your local solid waste agency for disposal instructions.
Industrial Setting	Contents under pressure. Cans may burst when exposed to heat. Release the pressure from bag-on-valve container using appropriate aerosol disposal equipment to ensure worker safety. When disposed as waste, this product is not considered hazardous waste under Federal regulations, however regulations may vary by state or province and may designate it as hazardous waste. Check with your local waste and waste water authorities. We are aware of the following state waste classifications:
California Hazardous Waste Code	232
Connecticut Hazardous Waste Code	CT04
Michigan Liquid Waste Code	029L
Vermont Hazardous Waste Code	VT06
Washington Hazardous Waste Code	WT02
Empty Packaging	Offer empty container for recycling. If recycling is not available, discard in trash. <div style="text-align: right;">  </div>


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Section 14: Transport Information

Container Size	Water capacity >500 mL and < 1 L
Propellant	Compressed air



U.S. DOT (Surface Transport)

Proper Shipping Name	None required (Limited Quantity (49 CFR 173.306(i)). Commodity shipping description: Cleaning Compound, NOI
Hazard Class	Not applicable.
UN ID	Not applicable.
Packaging Group	Not applicable.
Labeling	None required.
Marking	Limited Quantity 
Shipping Papers	None required.

U.S. DOT (Water Transport)

Proper Shipping Name	Aerosols, non-flammable
Hazard Class	2.2
UN ID	UN1950
Packaging Group	Not applicable.
Labeling	None required.
Marking	Limited Quantity 
Shipping Papers	Required.

U.S. DOT (Air Transport)

Proper Shipping Name	Aerosols, non-flammable
Hazard Class	2.2
UN ID	UN1950
Packaging Group	Not applicable.
Labeling	NON-FLAMMABLE GAS - 2 
Marking	Limited Quantity Air 
Packaging Instruction	Y203
Shipping Papers	Required.

U.S. States

Waste	See U.S. DOT for finished product classification for transport. Contents under pressure. Cans may burst when exposed to heat. Regulated in some states if the product is disposed of as waste by commercial users/handlers. Refer to Section 13. for applicable state waste codes and bag-on-valve aerosol disposal.
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Canadian TDG (Surface Transport)



Proper Shipping Name	Not determined.
Hazard Class	Not determined.
UN ID	Not determined.
Packaging Group	Not determined.
Labeling	Not determined.
Marking	Not determined.

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Shipping Papers	Not determined.
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IMDG (Marine Transport)	
Proper Shipping Name	Aerosols, non-flammable
Hazard Class	2.2
UN ID	UN1950
Packaging Group	Not applicable.
Labeling	None required.
Marking	Limited Quantity 
Shipping Papers	Required.

IATA (Air Transport)	
Proper Shipping Name	Aerosols, non-flammable
Hazard Class	2.2
UN ID	UN1950
Packaging Group	Not applicable.
Labeling	NON-FLAMMABLE GAS - 2 
Marking	Limited Quantity Air 
Packaging Instruction	Y203
Shipping Papers	Required.

Section 15: Regulatory Information

U.S.	
Toxic Substances Control Act (TSCA)	This product complies with or is exempt from the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
EPA Registration Number	84683-3-86066.
California Prop 65	This product is not subject to the labeling requirements of California's Proposition 65.
California Air Resources Board (CARB)	Meets applicable California Air Resource Board requirements for consumer products.
Canada	
Domestic Substances List (DSL)	Not for sale outside the U.S.
Health Canada Registration Number	Not registered for sale in Canada.
Right to Know	Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the product label. Please refer to Section 3. of this SDS for ingredient listing.
Other	Fragrances used in this product comply with applicable International Fragrance Association (IFRA) guidance.

Section 16: Other Information

Hazardous Materials Identification System (HMIS) Rating	Not determined
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National Fire Protection Association (NFPA) Rating	NFPA 30B: Level 1 Aerosols.
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Consumer Product Label Information

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For heavily soiled or greasy areas, pre-cleaning is required. Do not spray in eyes.

TO DISINFECT & DEODORIZE: 1. Wet the surface with the spray (spot test to check surface compatibility). 2. Leave for 10 minutes. Allow to air-dry. No rinsing or wiping is required (even on food contact surfaces).

STORAGE & DISPOSAL

Contents under pressure. Do not expose to heat or open flame, or store at temperatures above 120 F. Do not puncture or incinerate container. Store airtight at room temperature in areas inaccessible to small children. Nonrefillable container. Do not reuse or refill this container. Offer empty container for recycling. If recycling is not available, discard in trash.

Prepared by	Seventh Generation Inc.
Issuing Date	29 March 2017
Revision Date	29 March 2017
Revision Note	First Issue

Please note: This product is manufactured and marketed for consumer use and should be used as directed on the product label for the intended purpose. Seventh Generation warrants that this product conforms to our standard specification when released to the market and when used according to directions. To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with requisite caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other abbreviations used in this document:

- DOT – (U.S.) Department of Transportation
- EPA – (U.S.) Environmental Protection Agency
- IARC – International Agency for Research on Cancer
- NTP – (U.S. Department of Health and Human Services) National Toxicology Program
- OSHA – (U.S.) Occupational Safety and Health Administration
- TDG – (Canadian) Transport of Dangerous Goods
- WHMIS – (Canadian) Workplace Hazardous Materials Information System

End of Safety Data Sheet