

SAFETY DATA SHEET



Issue date 27 July 2018

FM000005-01.2

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	Automatic Dishwasher Detergent Packs - Lemon
Synonyms	Dishwasher Detergent Packs - Lemon
Product Use	Automatic Dishwashing
Restrictions on Use	Follow directions on the product label
Manufacturer Name	Seventh Generation, Inc.
Address	60 Lake Street, Burlington, VT 05401, USA
Emergency Telephone Number	U.S., Canada
Monday -Friday 8 am - 5 pm ET (except holidays)	1-800-211-4279
Outside these hours	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	
Eye Damage/Irritation	Category 2A
Respiratory Sensitization	Category 1

Signal Word	
DANGER	

Hazard Statement(s)	
Causes serious eye irritation	
May cause allergy or asthma symptoms or breathing difficulties if inhaled	

Hazard Pictogram(s)	
Health Hazard	

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
Wash hands thoroughly after handling. Wear eye protection.
Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation, wear respiratory protection.

Precautionary Statement(s) - Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor or poison control center.

Precautionary Statement(s) - Storage
None

Precautionary Statement(s) - Disposal
Dispose of contents and container in accordance with applicable regulations.

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
sodium carbonate	cleaning agent	497-19-8	30% - 100%	2800 mg/kg
citric acid	water softener	77-92-9	10% - 30%	5400 mg/kg
sodium sulfate	processing aid	7757-82-6	10% - 30%	10000 mg/kg
sodium percarbonate	oxygen stain removal agent	15630-89-4	3% - 10%	1034 mg/kg
ppg-10-laureth-7	cleaning agent	68439-51-0	1% - 3%	>2000 mg/kg
sodium polyaspartate	anti-filming agent	34345-47-6	1% - 3%	>5000 mg/kg
sodium silicate	cleaning enhancer	1344-09-8	1% - 3%	1960 mg/kg
sodium aluminosilicate	water softener	68989-22-0	$\leq 1\%$	2000 mg/kg
protease (subtilisin) (aep)	enzyme soil remover	9014-01-1	0.1% - 1%	1800 mg/kg
amylase (aep)	enzyme soil remover	9000-90-2	<0.1%	7500 mg/kg
essential oils & botanical extracts*	fragrance	mixture	<0.1%	>5000 mg/kg
Film:		.	.	.
polyvinyl alcohol	water soluble film	139871-83-3	1% - 3%	20000 mg/kg
glycerin	processing aid	56-81-5	$\leq 1\%$	>12600 mg/kg
zea mays (corn) starch	processing aid	9005-25-8	<0.1%	>5000 mg/kg

*Lemon: citrus grandis (grapefruit) peel oil, citrus limon (lemon) peel oil, cymbopogon schoenanthus (lemongrass) 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.

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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.

Section 4: First Aid Measures

Eye Contact	Promptly flush with large amounts of water for at least 15 minutes. Contact a physician if redness or irritation persists.
Skin Contact	Rinse thoroughly with water if skin contact occurs. Call a physician if irritation or rash develops or persists. Remove contaminated clothing and wash before reuse.
Ingestion	Do not induce vomiting. Drink 4-8 ounces of water or milk immediately. Contact a poison control center or physician.
Inhalation	If irritation occurs, 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	Not available.
Hazardous Combustion Products	Not available.
Protective Equipment and Precautions for Firefighters	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).
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.
Industrial Setting	Before attempting clean up, refer to hazard data given. Material may be slippery if spilled and wet. Prevent spill from entering a waterway. Stop spill at source and contain material. Transfer powder to container for recovery or disposal. Dispose liquid 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 in original container in a cool, dry place and keep container closed when not in use. Avoid freezing.
Storage Incompatibilities	Store away from acids.

Section 8: Exposure Controls, Personal Protection

Exposure Limits	Occupational exposure limits
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Substance, CAS	Limit Value - Eight Hours		Limit Value - Short Term	
	ppm	mg/m3	ppm	mg/m3
glycerol, mist - 56-81-5	---	15 inhalable dust 5 respirable dust (OSHA)	---	---
protease (subtilisin) - 9014-01-1	---	---	---	0.00006 (NIOSH, 60 minutes average value)
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	General ventilation required. Wear respiratory protection in case of inadequate ventilation, when handling powder, dust or mist.			
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	Solid (powder in PVA Pouch).
Color	White
Clarity	Solid
Odor	Fragranced. Characteristic of the ingredients
Odor Threshold	Not available.
pH (1% aqueous dilution)	9.2 - 10.2
Melting Point	Not available.
Flammability	Not flammable.
Upper Explosive Limit (UEL)	Not applicable.
Lower Explosive Limit (LEL)	Not applicable.
Vapor Pressure (mmHg)	Not available.
Vapor Density (Air = 1)	Not available.
Solubility in Water	Soluble
Auto-Ignition Temperature	Not available.
Decomposition Temperature	Not available.
Bulk Density	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	None known.
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	Strong oxidizers or reducing agents, strong acids or strong bases.
Hazardous Decomposition Products	None known.

Section 11: Toxicological Information

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Potential Route(s) of Exposure	Eyes. Skin. Ingestion. Inhalation.
Effects of Acute Exposure	
Oral Toxicity	LD50 >2000 mg/kg, calculated based on ingredients.
Dermal Toxicity	Not determined.
Inhalation Toxicity	Not determined.
Eye Contact	Moderate Irritant, based on in-vitro data.
Skin Contact	Dermal non-irritant. Not classified for skin irritation, based on in-vitro data.
Component Information	Refer to section 3 for ingredient LD50 (acute oral).
Skin Sensitization	Not classified for skin sensitization, based on ingredients.
Respiratory Sensitization	Classified for respiratory sensitization, based on ingredients.
Carcinogenicity	Not classified - based on ingredients
NTP	No Ingredients Listed
IARC	No Ingredients Listed
OSHA	No Ingredients Listed
Reproductive Effects	Not classified - based on ingredients
Mutagenicity	Not classified - based on ingredients
Specific Target Organ Toxicity - Single Exposure	Not classified - based on ingredients
Specific Target Organ Toxicity - Repeat Exposure	Not classified - based on ingredients
Aspiration Toxicity	Not classified - based on ingredients

Section 12: Ecological Information

Ecotoxicity	Not available.
Persistence and Degradability	Non inorganic components are biodegradable, based on OECD 301B. Ready biodegradability.
Bioaccumulative Potential	None known.
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	Product residues in the container may be discarded in trash. When used as directed, the product is septic-safe.
Industrial Setting	When disposed as waste in its original form, 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	561
Connecticut Hazardous Waste Code	CT05
Washington Hazardous Waste Code	WT02
Empty Packaging	Offer empty container for recycling. If recycling is not available, discard in trash. 

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Section 14: Transport Information

U.S. DOT	Not regulated.
U.S. States	See U.S. DOT for finished product classification for transport.
Waste	Regulated in some states if the product is disposed of in its original form as waste by commercial users/handlers. Refer to Section 13. for applicable state waste codes.
Canadian TDG (Surface Transport)	Not regulated.
IMDG (Marine Transport)	Not regulated.
IATA (Air Transport)	Not regulated.

Section 15: Regulatory Information

U.S.	
Toxic Substances Control Act (TSCA)	This product complies with the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
California Prop 65	This product is not subject to the labeling requirements of California's Proposition 65.
California Air Resources Board (CARB)	Not applicable.
Canada	
Domestic Substances List (DSL)	This product complies with the inventory requirements under Canada's Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or is otherwise in compliance with the New Substances Notification (NSN) regulations or exemptions.
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 Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	HEALTH	2*
	FLAMMABILITY	1
	PHYSICAL HAZARDS	0
	PERSONAL PROTECTION	E

National Fire Protection Association (NFPA) Rating	Not determined.
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Consumer Product Label Information

CAUTION: INJURIOUS TO EYES HARMFUL IF SWALLOWED HOW TO USE LOAD DISHWASHER: Make sure items are dishwasher safe. Load items with soiled surfaces facing the center and keep taller items away from the center. Silver, aluminum, and stainless steel should be washed in separate loads to avoid discoloration. ADD DETERGENT: Place one pack in the main dispenser cup and close the dispenser door. Do not unwrap or puncture the pack. Do not handle pack with wet hands. Reseal package. KEEP OUT OF REACH OF CHILDREN. CAUTION: INJURIOUS TO EYES. HARMFUL IF SWALLOWED. Avoid contact with eyes, mucous membranes and prolonged skin contact. FIRST AID TREATMENT: For product contents see ingredient list. CONTACT WITH EYES: Flush immediately with water for at least 15 minutes and consult a physician. IF SWALLOWED: Drink plenty of water and call a Poison Control Center or physician immediately. Do not induce vomiting.

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Revision Note	Revised Sections 1, 2, 3, 4, 7, 8, 11, 12 and 16.

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