

SAFETY DATA SHEET



Issue date 3 August 2018

FM000004-00.2

This Safety Data Sheet (SDS) is provided to assist with proper use and safe handling of this product. This product may be packaged for professional use or consumer use. Applicable professional use directions are provided on the product label and are included for easy reference in Section 16 of this SDS, and applicable professional use safety information is included on the product label and in this SDS. 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. 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 Powder - Free & Clear
Synonyms	Professional Automatic Dishwasher Detergent Powder - Free & Clear
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

Signal Word	
WARNING	

Hazard Statement(s)	
H319 Causes serious eye irritation	

Hazard Pictogram(s)	
Exclamation mark	A red diamond-shaped hazard pictogram with a black exclamation mark in the center.

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.

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.

Precautionary Statement(s) - Storage
None

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	
sodium chloride	processing aid	7647-14-5	30% - 100%	
sodium sulfate	processing aid	7757-82-6	10% - 30%	
sodium carbonate	cleaning agent	497-19-8	10% - 30%	
citric acid	water softener	77-92-9	10% - 30%	
sodium percarbonate	oxygen stain removal agent	15630-89-4	1% - 3%	
ppg-10-laureth-7	cleaning agent	68439-51-0	1% - 3%	
sodium polyaspartate	anti-filming agent	34345-47-6	1% - 3%	
sodium silicate	cleaning enhancer	1344-09-8	<1%	
protease (subtilisin) (aep)	enzyme soil remover	9014-01-1	<0.1%	
amylase (aep)	enzyme soil remover	9000-90-2	<0.1%	

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

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. Call a physician if irritation or rash develops or persists.
Ingestion	Drink one glass of water or milk immediately. If prolonged nausea or pain occurs call a doctor.
Inhalation	If irritation occurs, remove to fresh air. If breathing is affected, call a physician.
Notes to Physician	Treat symptomatically.

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Most important symptoms and effects	Acute exposure may result in eye irritation. Symptoms of acute exposure may include the following: redness and pain.
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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	
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.
Household Setting	Small spills and leaks may be cleaned up and disposed of in normal household trash.

Section 7: Handling and Storage

Safe Handling	
Industrial Setting	Wear appropriate personal protective equipment when handling powder or dust (refer to section 8).
Household Setting	Use as directed on product label.
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.
Storage Incompatibilities	Store away from acids.

Section 8: Exposure Controls, Personal Protection

Exposure Limits		Occupational exposure limits
Component Information:		
protease (subtilisin) (aep)	9014-01-1	ACGIH - TLV - 0.00006 mg/m3 Ceiling NIOSH - 0.00006 mg/m3 STEL (60 min) CA, CT, HI, MI, MN, NY, TN, WA - OEL/PEL - 0.00006 mg/m3 STEL (60 min) AB, BC, MB, NB, NL, NT, NS, NU, ON, PE, QC, SK, YT - OEL - 0.00006 mg/m3 Ceiling
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Engineering Controls		General ventilation.

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Personal Protective Equipment (PPE)	
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.
Household Setting	No special precautions necessary as long as product is used as directed.

Section 9: Physical and Chemical Properties

Physical State	Solid (powder).
Color	White to light yellow
Clarity	Solid
Odor	Unfragranced. Characteristic of the ingredients
Odor Threshold	Not available.

pH (1% aqueous dilution)	9.4 - 10.0
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	Not available.
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	
Industrial Setting	Strong oxidizers or reducing agents, strong acids or strong bases.
Household Setting	In general, cleaning products should not be mixed with other household chemicals, unless specifically provided for in the use directions.
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 >3000 mg/kg, calculated based on ingredients.	
Dermal Toxicity	Not determined.	
Inhalation Toxicity	Not determined.	
Component Information ¹ :		
sodium chloride	7647-14-5	LD50 acute oral (rat) 3000 mg/kg
sodium sulfate	7757-82-6	LD50 acute oral (rat) >10000 mg/kg
sodium carbonate	497-19-8	LD50 acute oral (rat) 2800 mg/kg

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citric acid	77-92-9	LD50 acute oral (rat) 5400 mg/kg
sodium percarbonate	15630-89-4	LD50 acute oral (rat) 1034 mg/kg
ppg-10-laureth-7	68439-51-0	LD50 acute oral (rat) 3530 mg/kg
sodium polyaspartate	34345-47-6	LD50 acute oral (rat) >5000 mg/kg
sodium silicate	1344-09-8	LD50 acute oral (rat) 1960 mg/kg
protease (subtilisin) (aep)	9014-01-1	LD50 acute oral (rat) 1800 mg/kg
amylase (aep)	9000-90-2	LD50 acute oral (rat) >7500 mg/kg
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Eye Contact	Moderate Irritant, based on in-vitro data.	
Skin Contact	Dermal non-irritant. Not classified for skin irritation, based on ingredients.	
Skin Sensitization	Not classified for skin sensitization, based on ingredients.	
Respiratory Sensitization	Not 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	

¹LD50 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 12: Ecological Information

Ecotoxicity	Not available.
Persistence and Degradability	Non inorganic components are biodegradable, based on OECD 301B. Ultimate biodegradability.
Bioaccumulative Potential	No known significant effects or critical hazards.
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.
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
Household Setting	Product residues in the container may be discarded in trash. When used as directed, the product is septic-safe.

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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).	
Right to Know	Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and if applicable incidental ingredients ≥1% on the product label. Please refer to Section 3. of this SDS for ingredient listing.	
Component Information:		
sodium sulfate	7757-82-6	Massachusetts Pennsylvania

Section 16: Other Information

Hazardous Materials Identification System (HMIS) Rating Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARDS	0
	PERSONAL PROTECTION	A
National Fire Protection Association (NFPA) Rating		Not determined.

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Professional Product Label Information

DIRECTIONS FOR 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: Fill main dispenser cup according to machine directions and close the dispenser door.

Consumer Product Label Information

CAUTION:

HARMFUL IF SWALLOWED

EYE IRRITANT

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: Fill main dispenser cup according to machine directions and close the dispenser door.

Close between uses. Store in a cool, dry place.

KEEP OUT OF REACH OF CHILDREN. CAUTION: EYE IRRITANT. HARMFUL IF SWALLOWED. Avoid contact with eyes. 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 consult a physician.

Prepared by	Seventh Generation Inc.
Issuing Date	3 August 2018
Revision Date	3 August 2018
Revision Note	Revised Sections 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 15 and 16.

Please note: This product is manufactured and marketed for professional use or 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