

SAFETY DATA SHEET



Issue date 3 August 2018

FM000017-00.5

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	Laundry Detergent - Free & Clear
Synonyms	Professional Liquid Laundry Detergent - Free & Clear
Product Use	Laundry
Restrictions on Use	Follow directions on the product label

Manufacturer Name Address	Seventh Generation, Inc. 60 Lake Street, Burlington, VT 05401, USA
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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)
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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 2B

Signal Word	
WARNING	

Hazard Statement(s)	
H320 Causes eye irritation	

Hazard Pictogram(s)	
None	

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.

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	
aqua (water)	diluent	7732-18-5	30% - 100%	
laureth-6	cleaning agent	68439-50-9	3% - 10%	
sodium lauryl sulfate	cleaning agent	68585-47-7	3% - 10%	
sodium citrate	water softener	6132-04-3	3% - 10%	
glycerin	enzyme stabilizer	56-81-5	1% - 3%	
sodium chloride	viscosity modifier	7647-14-5	1% - 3%	
oleic acid	anti-foaming agent	67701-08-0 (112-80-1)	1% - 3%	
sodium hydroxide	pH adjuster	1310-73-2	<1%	
calcium chloride	enzyme stabilizer	10043-52-4	<1%	
citric acid	pH adjuster	77-92-9	<1%	
protease (subtilisin) (aep)	enzyme soil remover	9014-01-1	<0.1%	
amylase (aep)	enzyme soil remover	9000-90-2	<0.1%	
mannanase (aep)	enzyme soil remover	37288-54-3	<0.1%	
benzisothiazolinone	preservative	2634-33-5	<0.1%	
methylisothiazolinone	preservative	2682-20-4	<0.1%	

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

Section 4: First Aid Measures

Eye Contact	Flush eyes with water immediately after contact. Contact a physician if irritation develops or persists.
Skin Contact	Rinse thoroughly with water. Call a physician if irritation or rash develops or persists.

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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.
Most important symptoms and effects	Acute exposure may result in eye irritation. Symptoms of acute exposure may include the following: redness and pain.

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. 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 or diluted and disposed of via sewer.

Section 7: Handling and Storage

Safe Handling	
Industrial Setting	Wear appropriate personal protective equipment (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 and keep container closed when not in use. Avoid freezing.
Storage Incompatibilities	None known.

Section 8: Exposure Controls, Personal Protection

Exposure Limits	Occupational exposure limits	
Component Information:		
glycerin	56-81-5	<p>USA OSHA</p> <ul style="list-style-type: none"> - PEL - 15 mg/m3 TWA (mist, total particulate); 5 mg/m3 TWA (mist, respirable fraction) <p>CA, HI, MI, MN, NY, OR, TN, VT, WA</p> <ul style="list-style-type: none"> - OEL/PEL - 10 mg/m3 PEL (mist, total dust); 5 mg/m3 TWA (mist, respirable fraction) <p>WA</p> <ul style="list-style-type: none"> - PEL - 20 mg/m3 STEL (mist, total particulate), 10 mg/m3 STEL (mist, respirable fraction) <p>AB, NB, NT, NU, ON, QC, SK, YT</p> <ul style="list-style-type: none"> - OEL - 10 mg/m3 (mist) TWA <p>BC</p> <ul style="list-style-type: none"> - OEL - 10 mg/m3 (mist); 3 mg/m3 TWA (mist, respirable) TWA <p>NT, NU, SK</p> <ul style="list-style-type: none"> - OEL - 20 mg/m3 (mist) STEL

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sodium hydroxide	1310-73-2	USA OSHA - PEL - 2 mg/m ³ TWA CA - OEL - 2 mg/m ³ PEL; 2 mg/m ³ Ceiling CT, HI, MI, MN, NY, OR, TN, VT, WA - OEL/PEL - 2 mg/m ³ Ceiling AB, BC, MB, NB, NL, NT, NS, NU, ON, PE, QC, SK, YT - OEL - 2 mg/m ³ Ceiling
calcium chloride	10043-52-4	Ontario - OEL - 5 mg/m ³ TWA
protease (subtilisin) (aep)	9014-01-1	ACGIH - TLV - 0.00006 mg/m ³ Ceiling NIOSH - 0.00006 mg/m ³ STEL (60 min) CA, CT, HI, MI, MN, NY, TN, WA - OEL/PEL - 0.00006 mg/m ³ STEL (60 min) AB, BC, MB, NB, NL, NT, NS, NU, ON, PE, QC, SK, YT - OEL - 0.00006 mg/m ³ Ceiling
Engineering Controls	General ventilation.	
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	Liquid.
Color	Light amber
Clarity	Clear
Odor	Unfragranced. Characteristic of the ingredients
Odor Threshold	Not available.

pH	8.5 - 8.9
Melting Point	Not available.
Freezing Point	Not available.
Initial Boiling Point and Boiling Range	Not available.
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)	1.04 - 1.07
Relative Density	Not available.
Vapor Density (Air = 1)	Not available.
Solubility in Water	Miscible
Partition Coefficient: n-octanol/water	Not available.
Auto-Ignition Temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
VOC (weight %)	Not available.

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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	None known.
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.	
Effects of Acute Exposure		
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.	
Dermal Toxicity	Not determined.	
Inhalation Toxicity	Not determined.	
Component Information ¹ :		
aqua (water)	7732-18-5	Not applicable
laureth-6	68439-50-9	LD50 acute oral (rat) 1870 mg/kg
sodium lauryl sulfate	68585-47-7	LD50 acute oral (rat) 1288 mg/kg
sodium citrate	6132-04-3	LD50 acute oral (rat) 5400 mg/kg
glycerin	56-81-5	LD50 acute oral (rat) >12600 mg/kg
sodium chloride	7647-14-5	LD50 acute oral (rat) 3000 mg/kg
oleic acid	67701-08-0 (112-80-1)	LD50 acute oral (rat) 25000 mg/kg
sodium hydroxide	1310-73-2	LD50 acute oral (rat) >100 mg/kg
calcium chloride	10043-52-4	LD50 acute oral (rat) >2000 mg/kg
citric acid	77-92-9	LD50 acute oral (rat) 5400 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
mannanase (aep)	37288-54-3	LD50 acute oral (rat) >5000 mg/kg
benzisothiazolinone	2634-33-5	LD50 acute oral (rat) 1020 mg/kg
methylisothiazolinone	2682-20-4	LD50 acute oral (rat) 120 mg/kg
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Eye Contact	Mild Irritant, based on in-vitro data.	
Skin Contact	Not classified for skin irritation, based on in-vitro data. Possible irritation from prolonged contact with the undiluted product.	
Skin Sensitization	Not classified for skin sensitization, based on ingredients.	
Respiratory Sensitization	Not classified for respiratory sensitization, based on ingredients.	
Carcinogenicity		
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	

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Aspiration Toxicity	Not classified - based on ingredients
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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	This product is biodegradable, based on OECD 301B. Ready 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	CT04
Michigan Liquid Waste Code	029L
Washington Hazardous Waste Code	WT02
Household Setting	Product residues in the bottle may be discarded in trash, or diluted with water and disposed via sewer. When used as directed, the product is septic-safe.
Empty Packaging	Offer empty container for recycling. If recycling is not available, discard in trash. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>

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).

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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).	
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.	
Component Information:		
glycerin	56-81-5	Massachusetts New Jersey Pennsylvania
oleic acid	67701-08-0 (112-80-1)	Pennsylvania (CAS 112-80-1)
sodium hydroxide	1310-73-2	Massachusetts New Jersey Pennsylvania
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Section 16: Other Information

Hazardous Materials Identification System (HMIS) Rating Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	HEALTH	1
	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:

This laundry detergent is designed to produce the best results when measured and used according to the steps below.

SORT: Follow garment care label instructions.

PRETREAT: Pour laundry detergent directly on stained fabric, rub gently and soak before washing clothes.

MEASURE: Standard and HE Machines: 1.5 fl oz / 44 mL for medium loads; 2.2 fl oz / 65 mL for heavily soiled or larger loads.

WASH: Use dispenser for HE washers. For standard washers, start machine, add laundry detergent, then add clothes.

Consumer Product Label Information

HOW TO USE

SORT: Follow garment care label instructions. **PRETREAT:** Pour onto stained fabric, rub gently and soak. **MEASURE:** 1.5 oz / 44 mL for medium loads; 2.2 oz / 65 mL for heavily soiled or larger loads. **WASH:** Use dispenser for HE washers. For standard washers, start machine, add detergent, then clothes.

KEEP OUT OF REACH OF CHILDREN. If product gets into eyes, flush thoroughly with water. If swallowed, drink plenty of water.

Prepared by	Seventh Generation Inc.
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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