

# SAFETY DATA SHEET



Issue date 27 July 2018

FM000005-00.2

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 - Free & Clear                   |
| Synonyms   | Dishwasher Detergent Packs - Free & Clear                             |
| Product Use  | Automatic Dishwashing   |
| Restrictions on Use  | Follow directions on the product label                                |
| Manufacturer Name<br>Address   | Seventh Generation, Inc.<br>60 Lake Street, Burlington, VT 05401, USA |
| Emergency Telephone Number<br>Monday -Friday 8 am - 5 pm ET (except holidays)<br>Outside these hours | U.S., Canada<br>1-800-211-4279<br>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.<br>Keep out of reach of children.<br>Read label before use. |  |

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| Precautionary Statement(s) - Prevention   |
|---|
| Wash hands thoroughly after handling.<br>Wear eye protection.   |
| Avoid breathing dust/fume/gas/mist/vapors/spray.<br>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.<br>If eye irritation persists: Get medical advice/attention. |
| If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.<br>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 <sup>1</sup> | LD50 <sup>2</sup> |
|-----------------------------|----------------------------|-------------|----------------------------|-------------------|
| 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        |
| 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       |

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

<sup>2</sup> 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                         | 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.<br>Store in original container in a cool, dry place and keep container closed when not in use.<br>Avoid freezing. |
| Storage Incompatibilities | Store away from acids.  |

## Section 8: Exposure Controls, Personal Protection

|                 |                              |       |                          |       |
|-----------------|------------------------------|-------|--------------------------|-------|
| Exposure Limits | Occupational exposure limits |       |                          |       |
| Substance, CAS  | Limit Value - Eight Hours    |       | Limit Value - Short Term |       |
|                 | ppm                          | mg/m3 | ppm                      | mg/m3 |

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|  |  |  |     |   |
|--|--|--|-----|---|
| glycerol, mist - 56-81-5                   | ---  | 15 inhalable dust<br>5 respirable dust<br>(OSHA) | --- | ---                                       |
| protease (subtilisin) - 9014-01-1          | ---  | ---  | --- | 0.00006 (NIOSH, 60 minutes average value) |
| <b>Engineering Controls</b>                | Not applicable.  |  |     |   |
| <b>Personal Protective Equipment (PPE)</b> |  |  |     |   |
| <b>Household Setting</b>                   | No special precautions necessary as long as product is used as directed.   |  |     |   |
| <b>Industrial Setting</b>                  |  |  |     |   |
| <b>Respiratory Protection</b>              | General ventilation required. Wear respiratory protection in case of inadequate ventilation, when handling powder, dust or mist. |  |     |   |
| <b>Eye Protection</b>                      | Goggles or other protective eye wear may be worn for protection.   |  |     |   |
| <b>Skin Protection</b>                     | Gloves may be worn for protection.   |  |     |   |
| <b>Hygiene Measures</b>                    | Handle in accordance with good industrial hygiene and safety practice.   |  |     |   |

## Section 9: Physical and Chemical Properties

|                                    |   |
|------------------------------------|---|
| <b>Physical State</b>              | Solid (powder in PVA Pouch).                    |
| <b>Color</b>                       | White   |
| <b>Clarity</b>                     | Solid   |
| <b>Odor</b>                        | Unfragranced. Characteristic of the ingredients |
| <b>Odor Threshold</b>              | Not available.                                  |
| <b>pH (1% aqueous dilution)</b>    | 9.2 - 10.2                                      |
| <b>Melting Point</b>               | Not available.                                  |
| <b>Flammability</b>                | Not flammable.                                  |
| <b>Upper Explosive Limit (UEL)</b> | Not applicable.                                 |
| <b>Lower Explosive Limit (LEL)</b> | Not applicable.                                 |
| <b>Vapor Pressure (mmHg)</b>       | Not available.                                  |
| <b>Vapor Density (Air = 1)</b>     | Not available.                                  |
| <b>Solubility in Water</b>         | Soluble   |
| <b>Auto-Ignition Temperature</b>   | Not available.                                  |
| <b>Decomposition Temperature</b>   | Not available.                                  |
| <b>Bulk Density</b>                | Not available.                                  |
| <b>VOC (weight %)</b>              | Not available.                                  |

## Section 10: Stability and Reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | None known.   |
| <b>Chemical Stability</b>                 | Stable under normal conditions of use and storage.  |
| <b>Possibility of Hazardous Reactions</b> | None known.   |
| <b>Conditions to Avoid</b>                | None known.   |
| <b>Incompatible Materials</b>             |   |
| <b>Household Setting</b>                  | In general, cleaning products should not be mixed with other household chemicals, unless specifically provided for in the use directions. |
| <b>Industrial Setting</b>                 | Strong oxidizers or reducing agents, strong acids or strong bases.  |
| <b>Hazardous Decomposition Products</b>   | None known.   |

## Section 11: Toxicological Information

|                                       |                                    |
|---------------------------------------|------------------------------------|
| <b>Potential Route(s) of Exposure</b> | Eyes. Skin. Ingestion. Inhalation. |
| <b>Effects of Acute Exposure</b>      |                                    |

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|  |  |
|--|--|
| 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.<br>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.<br>  |

## Section 14: Transport Information

|          |                |
|----------|----------------|
| U.S. DOT | Not regulated. |
|----------|----------------|

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|                                  |   |
|----------------------------------|---|
| 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. |

## Section 16: Other Information

|  |                            |           |
|--|----------------------------|-----------|
| <b>Hazardous Materials Identification System (HMIS) Rating</b><br><br>Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal | <b>HEALTH</b>              | <b>2*</b> |
|  | <b>FLAMMABILITY</b>        | <b>1</b>  |
|  | <b>PHYSICAL HAZARDS</b>    | <b>0</b>  |
|  | <b>PERSONAL PROTECTION</b> | <b>E</b>  |

|   |                 |
|---|-----------------|
| <b>National Fire Protection Association (NFPA) Rating</b> | Not determined. |
|---|-----------------|

## 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.

|               |   |
|---------------|---|
| Prepared by   | Seventh Generation Inc.                           |
| Issuing Date  | 27 July 2018                                      |
| Revision Date | 27 July 2018                                      |
| Revision Note | Revised Sections 1, 2, 3, 4, 7, 8, 11, 12 and 16. |

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**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**