

SAFETY DATA SHEET



Issue date 25 April 2016

FM000018-00.3, FM000018-01.3

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

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| Product Name | 4X Concentrated Laundry Detergent |
| Synonyms | 4X Concentrated Natural Laundry Detergent |
| 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 |
| 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

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| 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) | |
| 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. | |
| Precautionary Statement(s) - Prevention | |
| Wash hands thoroughly after handling. | |

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| Precautionary Statement(s) - Response |
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| 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 |
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| None known |

| Percent ingredients with unknown acute toxicity |
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| 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 |
|--------------------------------------|---------------------|------------|----------------------------|-------------------|
| aqua (water) | diluent | 7732-18-5 | 30% - 100% | Not applicable |
| laureth-6 | cleaning agent | 68439-50-9 | 10% - 30% | >2000 mg/kg |
| sodium lauryl sulfate | cleaning agent | 151-21-3 | 3% - 10% | 1288 mg/kg |
| sodium citrate | water softener | 6132-04-3 | 3% - 10% | 6730 mg/kg |
| glycerin | enzyme stabilizer | 56-81-5 | 1% - 3% | >12600 mg/kg |
| oleic acid | anti-foaming agent | 67701-08-0 | 1% - 3% | 25000 mg/kg |
| sodium hydroxide | pH adjuster | 1310-73-2 | $\leq 1\%$ | >100 mg/kg |
| calcium chloride | enzyme stabilizer | 10043-52-4 | $\leq 1\%$ | 1000 mg/kg |
| sodium chloride | viscosity modifier | 7647-14-5 | $\leq 1\%$ | 3000 mg/kg |
| protease | enzyme soil remover | 9014-01-1 | $\leq 1\%$ | 1800 mg/kg |
| amylase | enzyme soil remover | 9000-90-2 | $\leq 1\%$ | >2000 mg/kg |
| mannanase | enzyme soil remover | 37288-54-3 | $\leq 1\%$ | >2000 mg/kg |
| essential oils & botanical extracts* | fragrance | mixture | $\leq 1\%$ | >4000 mg/kg |
| benzisothiazolinone | preservative | 2634-33-5 | $\leq 1\%$ | 1020 mg/kg |
| methylisothiazolinone | preservative | 2682-20-4 | $\leq 1\%$ | >100 mg/kg |

*Free & Clear: not applicable.

*Geranium Blossoms & Vanilla: beta-caryophyllene, cananga odorata (ylang ylang) flower oil, cedrol, citronellol, citrus aurantium bergamia (bergamot) fruit oil, citrus aurantium dulcis (orange) peel oil, citrus limon (lemon) peel oil, coriandrum sativum (coriander) fruit oil, eugenia caryophyllus (clove) leaf oil, litsea cubeba fruit oil, pelargonium graveolens (geranium) flower oil, pogostemon cablin (patchouli) oil, prunus amygdalus dulcis (sweet almond) oil, vanillin. d-Limonene and citral are components 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.

Section 4: First Aid Measures

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| Eye Contact | Flush eyes with water immediately after contact. Call a physician if irritation develops or persists. |
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| Skin Contact | Rinse thoroughly with water if skin contact occurs. Call a physician if irritation develops or persists. |
| Ingestion | Drink 4-8 ounces of water or milk immediately. If prolonged nausea or pain occurs call a doctor. |
| Inhalation | No need for first aid is expected. |
| Notes to Physician | Treat symptomatically. |
| Most important symptoms and effects | Acute exposure may result in eye irritation. |

Section 5: Fire Fighting Measures

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| 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

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| 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 or diluted and disposed of via sewer. |
| 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. Small amounts may be flushed to sewer. |

Section 7: Handling and Storage

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| 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 and keep container closed when not in use. Avoid freezing. |
| Storage Incompatibilities | None known. |

Section 8: Exposure Controls, Personal Protection

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| 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

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| Physical State | Liquid. |
| Color | Light amber |
| Clarity | Clear |
| Odor | Unfragranced: Characteristic of the ingredients. Fragranced: Characteristic of the ingredients. |
| Odor Threshold | Not available. |

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| 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 (H2O = 1) | 1.05 - 1.08 |
| Relative Density | Not available. |
| Vapor Density (Air = 1) | Not available. |
| Solubility in Water | Miscible |
| Partition Coefficient: n-octanol/water | Not available. |
| Viscosity | Not available. |
| VOC (weight %) | Not available. |

Section 10: Stability and Reactivity

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| Reactivity | None known. |
| Chemical Stability | Stable. |
| 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 | None known. |
| Hazardous Decomposition Products | None known. |

Section 11: Toxicological Information

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| 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 available. |
| Inhalation Toxicity | Not available. |
| Eye Contact | Mild irritant |
| Skin Contact | Non-Irritant, based on Human Repeat Insult Patch Test (HRIPT). |
| 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 indicate a potential for allergic contact sensitization, based on Human Repeat Insult Patch Test (HRIPT). |
| 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. |

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| 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

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| Ecotoxicity | Not available. |
| Persistence and Degradability | This product is biodegradable, based on ingredients. |
| Bioaccumulative Potential | Not applicable. |
| Mobility in Soil | Not available. |
| Environmental Fate | No adverse effects expected. |

Section 13: Disposal Considerations

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| Product Waste | Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations. |
| 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. |
| 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 |
| Empty Packaging | Offer empty container for recycling. If recycling is not available, discard in trash. <div style="text-align: right;">  </div> |

Section 14: Transport Information

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| 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

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| 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). |

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| 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

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| 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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| Consumer Product Label Information HOW TO USE SORT: Follow garment care label instructions. PRETREAT: Pour onto stained fabric, rub gently and soak. MEASURE: 0.75 oz / 22 mL for medium loads; 1 oz / 29 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. |
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| Prepared by | Seventh Generation Inc. |
| Issuing Date | 25 April 2016 |
| Revision Date | 25 April 2016 |
| Revision Note | Revised Sections 2., 3. 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