



# MATERIAL SAFETY DATA SHEET

Issue date 30 May 2019

RDMC053019-00.1

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 Material Safety Data Sheet (MSDS) 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 MSDS. This MSDS 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

<b>Product Name</b>	Dishwasher Machine Disinfecting & Cleaning Solution
<b>Product Use</b>	For use with all dishwashers
<b>Restrictions on Use</b>	Follow directions on the product label
<b>Manufacturer Name</b>	PurTru LLC
<b>Address</b>	600 Palisade Ave, Suite 404B, Union City, New Jersey, USA
<b>Emergency Telephone Number</b>	U.S., Canada
<b>Monday -Friday 8 am - 5 pm ET (except holidays)</b>	1-833-787-8783
<b>Supplier Name</b>	PurTru LLC
<b>Address</b>	Union City, New Jersey, USA

## Section 2: Hazards Identification

<b>Classification</b>	
<b>U.S.</b>	This product is not considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Canada</b>	This product is not considered hazardous under the WHMIS 2015.

## Section 3: Composition, Information on Ingredients

Ingredient	Function	CAS Number	Concentration <sup>1</sup>	LD50 <sup>2</sup>
Distilled water	Diluent	7732-18-5	30% - 100%	Not applicable
Citric Acid	Water softener	77-92-9	≤30% - ≤70%	3000 - 7000 mg/kg
Boric Acid	Water softener	10043-35-3	≤20% - ≤60%	2000 - 6000 mg/kg
Sodium Bisulfate	Cleaning agent	7681-38-1	≤20% - ≤60%	2000 - 6000 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 PurTru by testing using rats. PurTru 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

<b>Eye Contact</b>	Flush eyes with water immediately after contact. Call a physician if irritation develops or persists.
<b>Skin Contact</b>	Rinse thoroughly with water if skin contact occurs. Call a physician if irritation develops or persists.
<b>Ingestion</b>	Drink 4-8 ounces of water or milk immediately. If prolonged nausea or pain occurs call a doctor.



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Inhalation	If irritation occurs, remove to fresh air. If breathing is affected, call a physician.
Notes to Physician	Treat symptomatically.
<b>Section 5: Fire Fighting Measures</b>	
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.
<b>Section 6: Accidental Release Measures</b>	
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.
<b>Section 7: Handling and Storage</b>	
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.
<b>Section 8: Exposure Controls, Personal Protection</b>	
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.
<b>Section 9: Physical and Chemical Properties</b>	
Physical State	Liquid.
Color	Colorless (water-clear)



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Clarity	Clear
Odor	Unfragranced. Characteristic of the ingredients
Odor Threshold	Not available.
pH	2.3 - 3.3
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 <sub>2</sub> O = 1)	1.00 - 1.01
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.
<b>Section 10: Stability and Reactivity</b>	
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.
<b>Section 11: Toxicological Information</b>	
Potential Route(s) of Exposure	Eyes. Skin. Ingestion. Inhalation.
Effects of Acute Exposure	
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.
Dermal Toxicity	Not available.
Inhalation Toxicity	Not available.
Eye Contact	Minimal Irritant, based on in-vitro data.
Skin Contact	Non-Irritant, based on in-vitro data.
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 elicit any significant evidence of dermatological irritation or hypersensitivity, under normal use conditions.
Carcinogenicity	Not expected to have chronic health effects.




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NTP	No Ingredients Listed
IARC	No Ingredients Listed
OSHA	No Ingredients Listed
Reproductive Effects	Not expected to have chronic health effects.
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

Ecotoxicity	Not available.
Persistence and Degradability	This product is biodegradable, based on OECD 301B.
Bioaccumulative Potential	Not applicable.
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 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

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.	
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<b>Toxic Substances Control Act (TSCA)</b>	This product complies with the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
<b>California Prop 65</b>	This product is not subject to the labeling requirements of California's Proposition 65.
<b>California Air Resources Board (CARB)</b>	Meets applicable California Air Resource Board requirements for consumer products.
<b>Canada</b>	
<b>Domestic Substances List (DSL)</b>	This product complies with the inventory requirements under Canada's Domestic Substances List (DSL).
<b>Right to Know</b>	Regardless of hazard classification, PurTru discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the product label. Please refer to Section 3. of this MSDS for ingredient listing.

## Section 16: Other Information

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

<b>National Fire Protection Association (NFPA) Rating</b>	Not determined
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### Consumer Product Label Information

**HOW TO USE**

Dishwasher Machine Disinfecting and Cleaning Solution by PurTru™ is an all-natural clear and odorless solution that eliminates foul odors and restores dishwasher to like new condition. All-natural citric acid formulation containing no harsh chemicals such as ammonia or bleach while providing enough strength for disinfecting, descaling and cleaning. For best results use solution every 2 to 3 months or as needed to reduce costly maintenance and repairs. Step 1 Prepare Dishwasher by removing any visible contaminants off the exterior and interior of door on dishwasher using solution. Step 2 Add Descaling & Cleaning Solution by pouring one quarter (4 ounces), or one use using indicator lines, bottle of PurTru™ solution into the detergent and rinse aid reservoirs of the dishwasher. Step 3 Run Pre-Soak Cycle Descaling & Cleaning Solution. Run the pre-soak cycle with the PurTru™ solution or, depending on the dishwasher, follow the manufacturer cleaning instructions. Step 4 Run Heavy Wash Cycle. Run a heavy wash cycle with the PurTru™ Solution or, depending on the dishwasher, follow the manufacturer cleaning instructions. General instructions are to follow manufacturer cleaning instructions for the dishwasher. Add ¼ or 4 ounces of PurTru™ Disinfecting & Cleaning Solution and set to heavy wash cycle.

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

<b>Prepared by</b>	PURTRU LLC
<b>Issuing Date</b>	30 May 2019
<b>Revision Date</b>	30 May 2019

**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. PurTru 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



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End of Material Safety Data Sheet