

# PUREWORKS<sup>®</sup>

## MATERIAL SAFETY DATA SHEET

Health : 1  
Flammability : 1  
Reactivity : 0

EMERGENCY TELEPHONE: 801-262-7873

PureWorks, LC  
4120 South 500 West, Murray, UT 84123

<b>MATERIAL</b> Pure Works One-step Disinfectant	<b>DATE ISSUED</b> 07/21/06	<b>DOT HAZARD CLASSIFICATION:</b> Non-hazardous
<b>CAS NUMBER:</b> See Section 1		<b>DOT SHIPPING NAME:</b> Not regulated
<b>FORMULA:</b> Mixture		<b>DOT LABEL:</b> None

### I - INGREDIENTS

Ingredient	TWA/TLV
Proprietary Blend of Di-N-alkyl(C8-10)dimethylammonium chlorides (CAS No. 68424-95-3) and N-Alkyl(C12-16) dimethylbenzylammonium chlorides (CAS No. 68424-85-1) Concentration: <0.1%	None established
Water (CAS No. 7732-18-5)	None established

### II - PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b> Clear liquid	<b>ODOR</b> Light citrus fragrance
<b>VISCOSITY</b> Not known	<b>MELTING OR FREEZING POINT</b> 0 °C
<b>BOILING POINT</b> Not known	<b>VAPOR PRESSURE (mm Hg)</b> Not known
<b>VAPOR DENSITY (Air=1)</b> Not known	<b>SOLUBILITY IN WATER</b> Soluble
<b>EVAPORATION RATE (Butyl Acetate=1)</b> Not known	<b>SPECIFIC GRAVITY (WATER = 1)</b> 1.00 @ 25°C

### III - FIRE AND EXPLOSION INFORMATION

<b>FLASH POINT</b> >200Of	<b>AUTO IGNITION TEMPERATURE</b> Not known
<b>LOWER EXPLOSION LIMIT (%)</b> Not applicable	<b>UPPER EXPLOSION LIMIT (%)</b> Not applicable
<b>EXTINGUISHING MEDIA</b>	
<b>FOAM</b> <input checked="" type="checkbox"/> <b>ALCOHOL FOAM</b> <input type="checkbox"/> <b>CO<sub>2</sub></b> <input checked="" type="checkbox"/> <b>DRY CHEMICAL</b> <input checked="" type="checkbox"/> <b>WATER</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>	
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Products of combustion are toxic.

### IV - HEALTH EFFECTS INFORMATION

<b>PRIMARY ROUTES OF ENTRY -</b>	<b>SKIN CONTACT</b> <input checked="" type="checkbox"/>	<b>EYE CONTACT</b> <input checked="" type="checkbox"/>
	<b>INHALATION</b> <input type="checkbox"/>	<b>INGESTION</b> <input type="checkbox"/>

#### EFFECTS OF OVEREXPOSURE

Based on the available toxicity information, it is anticipated that this material will cause mild or no skin or eye irritation upon direct or prolonged contact. No human overexposure data is available for this material.

**OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:** No effects indicated.

#### EMERGENCY AND FIRST AID PROCEDURES:

**Eyes:** Flush eyes with plenty of water for several minutes. Seek medical attention if irritation develops.

**Skin:** Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops.

**Ingestion:** If swallowed, give 3-4 glasses of milk (if unavailable, give water), but DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

**Inhalation:** Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

#### CHEMICALS LISTED AS CARCINOGEN BY: (YES OR NO)

**NATIONAL TOXICOLOGY PROGRAM** – No      **I.A.R.C. MONOGRAPHS** – No      **OSHA** – No

### V – REACTIVITY INFORMATION

<b>STABILITY:</b> <b>STABLE</b> <input checked="" type="checkbox"/>	<b>CONDITIONS TO AVOID</b>
<b>UNSTABLE</b> <input type="checkbox"/>	None known

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials and oxides of carbon and nitrogen.

#### HAZARDOUS POLYMERIZATION

**MAY OCCUR**  **WILL NOT**  **CONDITIONS TO AVOID:** None known

**INCOMPATIBILITY (MATERIALS TO AVOID):** **WATER**  **OTHER** None known

*The information provided herein is compiled from internal reports and data from professional publications. IT IS FURNISHED WITHOUT WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. It is intended to assist in evaluating the suitability and proper use of the material in manufacturing and in the development and implementation of safety precautions and procedures.*

## VI - SPILL AND DISPOSAL INFORMATION

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Caution! Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

### WASTE DISPOSAL METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

### CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## VII - PERSONAL PROTECTION INFORMATION

### VENTILATION TYPE

In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

### RESPIRATORY PROTECTION

Where mist or vapors are generated by the process, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

### PROTECTIVE GLOVES

Rubber or neoprene, when needed, to prevent skin contact.

### EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

### OTHER PROTECTIVE EQUIPMENT

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

## VIII - STORAGE AND HANDLING

**PRECAUTIONS FOR STORAGE AND HANDLING:** Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

## IX - TOXICITY INFORMATION

Product is not toxic

## X - MISCELLANEOUS AND REGULATORY INFORMATION

**FEDERAL LEVEL REGULATIONS:** This is an EPA registered pesticide (EPA Registration No. 6836-152).

**TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:** Found on U.S. EPA TSCA inventory.

**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:** None known

**SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:** None known

**SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:** None known

**SARA Title 313 - This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:** None known

## X - MISCELLANEOUS AND REGULATORY INFORMATION (continued)

### STATE RIGHT-TO-KNOW REGULATIONS:

**CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:**

#### Typical Maximum

Chemical Name	CAS Number	Concentration
Acetaldehyde	75-07-0	4 ppb
Benzene	71-43-2	100 ppb
Benzyl chloride	100-44-7	200 ppb
1,4-Dioxane	123-91-1	4 ppb
Ethylene oxide	75-21-8	<1 ppb
N-Nitrosodimethylamine	62-75-9	1 ppb
Propylene oxide	75-56-9	20 ppb
Toluene	108-88-3	100 ppb

**MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:** None known

**MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:** None known

**NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:** None known

**PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:** None known

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