



# Material Safety Data Sheet

## Big D Water Soluble Deodorant

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Big D Water Soluble Deodorant
<b>Product Identifier</b>	316, 318, 350, 347, 353, 358, 611, 612, 613, 614, 617, 618, 641, 655, 656, 672, & 673
<b>MSDS No.</b>	01690001
<b>Other Means of Identification</b>	Water Soluble Deodorant
<b>Product Family</b>	Liquid Deodorants
<b>Manufacturer</b>	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
<b>Supplier</b>	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
<b>Emergency Contact Information</b>	Big D Industries, 800 535 5053, 24hr (Infotrac)

### 2. HAZARDS IDENTIFICATION

**Emergency Overview** Clear liquid. Fragrant odour. Presents little or no hazard if accidentally released.

#### Potential Health Effects

**Route of Exposure** Skin contact; eye contact; ingestion; inhalation.

**Inhalation** Not harmful.

**Skin Contact** May cause mild irritation.

**Eye Contact** EYE IRRITANT.

**Ingestion** TOXIC.

**Effects of Long-Term (Chronic) Exposure** Not harmful.

**Carcinogenicity** No information was located.

**Teratogenicity / Embryotoxicity** No information was located.

**Reproductive Toxicity** No information was located.

**Mutagenicity** No information was located.

#### Potential Environmental Effects

Not hazardous to the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Alcohol Ethoxylate	Proprietary	0.1-5.0	
2-Propanol	67-63-0	0.1-5.0	
Fragrance	No CAS	0.1-5.0	
Dipropylene glycol monomethyl ether	34590-94-8	0.1-5.0	

MSDS Name: Big D Water Soluble Deodorant - Ver. 3

MSDS No.: 01690001

Date of Preparation: March 13, 2013

## 4. FIRST AID MEASURES

### First Aid Procedures

<b>Inhalation</b>	Move victim to fresh air.
<b>Skin Contact</b>	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes.
<b>Eye Contact</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.
<b>Ingestion</b>	Call a Poison Centre or doctor if the victim feels unwell. Have victim rinse mouth with water.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties** Does not burn.

**Suitable Extinguishing Media** Not combustible. Use extinguishing agent suitable for surrounding fire.

**Unsuitable Extinguishing Media** None known.

**Specific Hazards Arising from the Chemical** This product presents no unusual hazards in a fire situation. Not known to generate any hazardous decomposition products in a fire.

**Protective Equipment and Precautions for Firefighters** No special precautions are necessary. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** No special precautions are necessary.

**Environmental Precautions** It is good practice to prevent releases into the environment.

**Methods for Containment and Clean-up** Contain and soak up spill with absorbent that does not react with spilled product.

## 7. HANDLING AND STORAGE

**Handling** No special handling precautions are necessary.

**Storage** No special requirements for storage area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
2-Propanol	200 ppm	400 ppm	400 ppm			
Dipropylene glycol monomethyl ether	100 ppm	150 ppm	600 mg/m3			

**Exposure Guideline Comments** ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit.

**Engineering Controls** The hazard potential of this product is relatively low. General ventilation is usually adequate.

### Personal Protective Equipment (PPE)

**Eye/Face Protection** Not required but it is good practice to wear safety glasses or chemical safety goggles.

MSDS Name: Big D Water Soluble Deodorant - Ver. 3

MSDS No.: 01690001

Page 02 of 05

Date of Preparation: March 13, 2013

**Skin Protection** Not required, if used as directed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear liquid.
<b>Particle Size</b>	Not applicable
<b>Odour</b>	Fragrant
<b>Odour Threshold</b>	Not available
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	Not applicable
<b>Boiling Point</b>	> 212 °F (100 °C)
<b>Decomposition Temperature</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Relative Density (water = 1)</b>	~ 1 at 68 °F (20 °C)
<b>Bulk Density</b>	Not available
<b>Solubility in Water</b>	Soluble in all proportions.
<b>Solubility in Other Liquids</b>	Not available
<b>pH</b>	Not available
<b>Partition Coefficient, n-Octanol/Water</b>	Not available
<b>Viscosity-Kinematic</b>	Not available
<b>Surface Tension</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	> 200 °F (93 °C)
<b>Lower Flammable/Explosive Limit</b>	Not available
<b>Upper Flammable/Explosive Limit</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Normally stable.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	None known.
<b>Possibility of Hazardous Reactions</b>	None known.

MSDS Name: Big D Water Soluble Deodorant - Ver. 3  
MSDS No.: 01690001  
Date of Preparation: March 13, 2013

## 11. TOXICOLOGICAL INFORMATION

### LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
2-Propanol	19000 ppm (female mouse) (vapour)	4700-5800 mg/kg (rat)	13000 mg/kg (rabbit)
Dipropylene glycol monomethyl ether		5135 mg/kg	9500 mg/kg

### Skin Irritation / Corrosion

No information was located.

### Eye Irritation / Corrosion

No information was located.

### Effects of Short-Term (Acute) Exposure

#### Inhalation

No information was located.

#### Skin Absorption

No information was located.

#### Ingestion

No information was located.

### Effects of Long-Term (Chronic) Exposure

No information was located.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
2-Propanol		A4		

A4 – Not classifiable as a human carcinogen.

### Teratogenicity / Embryotoxicity

No information was located.

### Reproductive Toxicity

No information was located.

### Mutagenicity

No information was located.

### Toxicologically Synergistic Materials

No information was located.

## 12. ECOLOGICAL INFORMATION

**General Comments** Environmental information was not located.

## 13. DISPOSAL CONSIDERATIONS

This product is a non-hazardous waste.

## 14. TRANSPORT INFORMATION

### Shipping Information

MSDS Name: Big D Water Soluble Deodorant - Ver. 3

MSDS No.: 01690001

Date of Preparation: March 13, 2013

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

## Other Transport Information

**Special Shipping Information** Not applicable

## 15. REGULATORY INFORMATION

### Canada

#### WHMIS Classification



Class D2B

D2B - Toxic (Eye irritant)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

#### CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. (2-Propanol) Part 5. (2-Propanol)

### USA

#### US OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### Additional USA Regulatory Lists

New Jersey Right To Know. (Dipropylene glycol monomethyl ether)

Pennsylvania Right To Know. (Dipropylene glycol monomethyl ether)

California Proposition 65: Due to the manufacturing Process there may be trace amounts of 1,4 Dioxane and Ethylene Oxide.

New Jersey Right To Know: Ethylene Oxide (CAS 75-21-8) Trace amount due to manufacture of. (Alcohol Ethoxylate)

Pennsylvania Right To Know: Ethylene Oxide (CAS 75-21-8) Trace amount due to manufacture of. (Alcohol Ethoxylate)

## 16. OTHER INFORMATION

**NFPA Rating** Health - 1 Flammability - 0 Instability - 0

**MSDS Prepared By** Wayne Hegstrom

**Phone No.** 405 682 2541

**Date of Preparation** March 13, 2013

**Additional Information** Please Note: This MSDS pertains to batch labels 292000 and higher of the above referenced product (see section 1). Batches before January 1st, 2013 should use the previously issued MSDS. Contact Big D Industries for the prior MSDS.

---

MSDS Name: Big D Water Soluble Deodorant - Ver. 3

MSDS No.: 01690001

Page 05 of 05

Date of Preparation: March 13, 2013