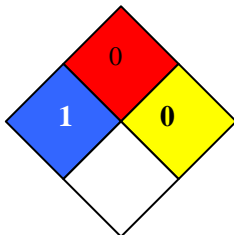


# Solution 2904

(Spray Wash Cleaner Booster/Rinse Additive)



## MATERIAL SAFETY DATA SHEET

Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	B

### SECTION 1

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Win Solutions, Inc.  
109 Pine Street  
Lexa, AR 72355

Telephone Number: (800) 489-0470  
Fax Number: (870) 572-9696

#### EMERGENCY TELEPHONE NUMBERS

Win Solutions. (800) 489-0470 Normal Business Hours  
CHEM-TEL (800) 255-3924 After Business Hours

#### PRODUCT NAME:

**Solution 2904**

#### DATE CREATED:

05/01/06

#### CHEMICAL NAME:

N/A

#### DATE LAST REVISED:

01/02/11

#### TRADE NAMES / SYNONYMS:

N/A

#### CHEMICAL FAMILY:

Cleaning/Rinsing liquid

### SECTION 2

### COMPOSITION, INFORMATION ON INGREDIENTS

#### A. Hazardous Ingredients:

2-butoxyethanol  
(CAS # 111-76-2)

#### Percentage

< 10

#### Exposure Limits

ACGIH TLV 25 ppm Skin  
OSHA PEL 25 ppm Skin

Modified polyethoxylated alcohol  
(CAS # Trade Secret)

< 10

None Established

#### B. Other Ingredients:

Mixture of sequestrates, coupling agents  
surfactants, and water

#### Percentage

Balance

#### Exposure Limits

None Established

#### C. Proprietary Trade Secret:

Each proprietary trade secret material listed above in Section 2 A is either:

- (1) Held a trade secret from Win Solutions, Inc.,
- (2) Below 0.1% if potential carcinogenic,
- (3) OSHA non-hazardous material or less than 1.0% if OSHA hazardous material.

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### SECTION 3

### HAZARDS IDENTIFICATION

\*\*\*\*\* **EMERGENCY OVERVIEW** \*\*\*\*\*

**CAUTION:** Avoid contact with eyes, skin and clothing. This product contains materials which can cause skin and eye irritations. May be absorbed through the skin. Do not taste or swallow. Do not allow to evaporate to near dryness. Keep material from heat, light and flame. Use only with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

\*\*\*\*\*

#### POTENTIAL HEALTH EFFECTS:

##### EYES:

SHORT TERM EFFECTS: Test on similar materials suggest irritation.

LONG TERM EFFECTS: Same effect as short term exposure.

##### INGESTION:

SHORT TERM EFFECTS: Test on similar materials indicate the possibility of the following symptoms:  
nausea and diarrhea

LONG TERM EFFECTS: None Known.

##### INHALATION:

SHORT TERM EFFECTS: Test on similar materials indicate the possibility of the following symptoms:  
respiratory tract irritation

LONG TERM EFFECTS: Same effect as short term exposure.

##### SKIN:

SHORT TERM EFFECTS: Test on similar materials suggest some irritation, dryness, and dermatitis.

LONG TERM EFFECTS: Same effect as short term exposure.

##### ADDITIONAL DATA:

None Known

##### PRIMARY ROUTE(S) OF ENTRY

Skin, Inhalation and Eyes

##### CHRONIC INFORMATION:

Prolonged and/or repeated contact with this material may produce skin, eye and respiratory tract irritation.

##### CARCINOGEN STATUS:

**OSHA:** No

**NTP:** No

**IARC:** No

**ACGIH:** No

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

##### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Personnel with pre-existing skin or respiratory tract disorders should avoid contact with this product.

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### SECTION 4

### FIRST AID MEASURES

#### EYES:

Flush eyes immediately with water for a minimum of 15 minutes occasionally lifting lower and upper lids. Get medical attention promptly.

#### INGESTION:

Drink several glasses of water to dilute. Do Not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

#### INHALATION:

Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

#### SKIN:

Wash skin thoroughly with soap and water. Immediately remove contaminated clothing and launder before reuse. If irritation or rash develops, obtain medical assistance.

#### NOTE TO PHYSICIAN:

Not Applicable for this product.

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### SECTION 5

### FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

<b>FLASH POINT:</b>	> 203 ° F (Tagged Closed Cup)
<b>AUTO IGNITION:</b>	> 500 ° F > 245 ° C (ASTM D-2155)
<b>FLAMMABILITY CLASS (OSHA):</b>	
<b>LOWER EXPLOSIVE LIMIT (%):</b>	at 199 ° F (93 ° C) : > 1.1 volume %
<b>UPPER EXPLOSIVE LIMIT (%):</b>	at 275 ° F (135 ° C) : > 12.7 volume %

#### FIRE AND EXPLOSION HAZARDS:

Forms peroxides of unknown stability

#### EXTINGUISHING MEDIA:

Any media suitable for the surrounding fire.  
(1996 Emergency Response Guidebook, RSPA P 5800.6)

#### FIRE FIGHTING INSTRUCTIONS:

Use water spray only to cool containers exposed to flame. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).

#### HAZARDOUS PRODUCTS OF COMBUSTION:

Fumes, smoke and carbon monoxide and carbon dioxide.

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### SECTION 6

### ACCIDENTAL RELEASE MEASURES

#### OCCUPATIONAL SPILL:

General: Shut off all ignition sources; no flares, smoking or flames in hazard area. Use personal protective equipment.  
For small spills; Take up with sand or other absorbent material and place into containers for later disposal.  
For large spills; Keep unnecessary people away; isolate hazard area and deny entry. Dike far ahead of spill. Contain spill from entering waterways or sewers. Absorb material with sawdust or other absorbent material and dispose of in an approved landfill. Advise EPA, state agencies if required.

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### **REPORTABLE QUANTITY (RQ):**

This product has no RQ value

The Superfund Amendments and Reauthorization Act (SARA) Section 304 requires that a release equal to or greater than the reportable quantity for this substance be immediately reported to the local emergency planning committee and the state emergency response commission (40 CFR 355.40). If the release of this substance is reportable under CERCLA Section 103, the National Response Center must be notified immediately at (800) 424-8802 or (202) 426-2675 in the metropolitan Washington, DC. area (40 CFR 302.6)

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## **SECTION 7**

## **HANDLING AND STORAGE**

### **HANDLING AND STORAGE:**

Observe all federal, state and local regulations when storing this substance.

### **BONDING AND GROUNDING:**

Not Applicable with this product.

### **SENSITIVITY TO (SHOCK) IMPACT:**

Not Applicable with this product.

### **HANDLING AND STORAGE PRECAUTIONS:**

Store in a cool dry area. Keep containers tightly closed when not in use. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors. Store away from incompatible substances. Wash thoroughly after handling.

### **WORK / HYGIENIC PRACTICES:**

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take a shower after work if general contact occurs. Remove soaked clothing and launder before reuse. Launder contaminated shoes and leather gloves.

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## **SECTION 8**

## **EXPOSURE CONTROLS, PERSONAL PROTECTION**

### **ENGINEERING CONTROLS:**

Use adequate ventilation to keep mists of this material below applicable standard(s). See Section on occupational exposure limits.

### **EYE / FACE PROTECTION:**

Safety glasses, splash goggles or face shield as appropriate. Have suitable eye water wash available.

### **SKIN PROTECTION:**

Avoid prolonged and / or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are neoprene; nitrile; viton.

### **VENTILATION:**

Supply adequate ventilation to keep levels below standards.

### **RESPIRATORY PROTECTION:**

Normally not required if adequate ventilation is in place.

### **OTHER / GENERAL PROTECTION:**

If there is a likelihood of splashing, splash resistant clothing should be worn. Never wear soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard)

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### SECTION 9

### PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE & DESCRIPTION:

Clear Amber liquid.

#### ODOR:

Light Butyl Odor.

#### BASIC PHYSICAL PROPERTIES:

##### PHYSICAL STATE:

Liquid

##### FLASH POINT:

> 203 °F (Tagged Closed Cup)

##### AUTO IGNITION:

> 500 °F > 245 °C (ASTM D-2155)

##### BOILING POINT:

IBP > 336 °F IBP > 169 °C

##### MELTING POINT:

- 103 °F - 75 °C

##### FREEZING POINT:

Not Determined

##### VAPOR PRESSURE:

@ 68 °F (20 °C) : 0.9 mbar (0.6 mm Hg)

##### VAPOR DENSITY:

> 4 Air = 1

##### SPECIFIC GRAVITY:

.97 Water = 1.0

##### MOLECULAR WEIGHT:

Not Determined

##### PACKING DENSITY:

N / A

##### WATER SOLUBILITY:

Complete

##### SOLVENT SOLUBILITY:

N / A

##### PERCENT VOLATILES:

Not Determined

##### EVAPORATION RATE:

< 0.1 (n-butyl acetate = 1)

##### pH:

< 10 undiluted

##### VISCOSITY:

@ 68 °F (20 °C) : >6.40 mPa.s or cP

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### SECTION 10

### STABILITY AND REACTIVITY

#### STABILITY AND REACTIVITY:

Stable under normal conditions, temperatures and pressures.

#### CONDITIONS TO AVOID:

Incompatible Materials

#### INCOMPATIBLE MATERIALS:

Strong oxidizers and strong acids.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal combustion may produce oxides of carbon and nitrogen if water is evaporated by heat of fire, and other asphyxiants.

#### HAZARDOUS POLYMERIZATION:

Hazardous polymerization has not been reported to occur under normal conditions. temperatures and pressures.

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### SECTION 11

### TOXICOLOGICAL INFORMATION

#### IRRITATION DATA:

#### TOXICITY DATA:

#### EYE EFFECTS

ACUTE EXPOSURE:

Irritation on contact.

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### SKIN EFFECTS

ACUTE EXPOSURE:

May cause irritation, redness, dryness or dermatitis with prolonged and repeated contact.

### ORAL (INGESTION) EFFECTS

ACUTE EXPOSURE:

Test on similar materials indicate the possibility of the following symptoms: nausea and diarrhea

### INHALATION EFFECTS

ACUTE EXPOSURE:

Not a likely route of exposure except as a diluted mist

### SYSTEMIC (ORGAN) EFFECTS DATA:

Contains component(s) which causes systemic effects in studies of the red blood cells. (test were made with 100% 2-butoxyethanol)

When inhaled and ingested by test rats and rabbits the test results were as follows:

Inhalation: LOEL = 86 ppm 9 days; NOEL = 20 ppm 9 days (target organ effects: red blood cell)

LOEL = 77 ppm 3 months; NOEL = 25 ppm 3 months (target organ effects: red blood cell)

Ingestion: LOEL = 6 weeks 222 mg/kg/day; NOEL = Not established (target organ effects: red blood cell and liver)

Dermal: LOEL = 150 mg/kg/day 13 weeks (highest dose tested)

KEY NOEL = no-observed-effect level LOEL = Lowest-observed-effect-level NOAEL = no-observed-adverse-effect-level.

### TERATOLOGY (BIRTH DEFECTS) DATA:

Contains component(s) which causes birth defects in studies: (test were made with 100% 2-butoxyethanol)

When inhaled and ingested by test rats and rabbits the test results were as follows:

Inhalation: NOEL for developmental toxicity = 200 ppm (highest concentration tested)

Inhalation: LOEL for embryo / fetotoxicity = 200 ppm; LOEL for maternal toxicity = 200 ppm; NOEL for embryo / fetotoxicity = 100 ppm; NOEL for maternal toxicity = 100 ppm; NOEL for teratogenicity =

200 ppm (highest concentration tested).

KEY NOEL = no-observed-effect level LOEL = Lowest-observed-effect-level NOAEL = no-observed-adverse-effect-level.

### CARCINOGENIC EFFECTS

This product or any of the ingredients in this product is not listed or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA

## SECTION 12

## ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publicly owned treatment works.

Data for this material have been used to estimate its environmental impact. It has the following properties: a high biochemical oxygen demand (BOD) and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organism, a high potential to biodegrade (low persistence) with unclaimed microorganisms from activated sludge. When diluted with water, this material release directly or indirectly into the environment is not expected to have a significant impact.

### ACUTE AQUATIC TOXICITY:

The information found below is based on 100% 2-butoxyethanol!  
24-h LC-50 (goldfish): 1650 - 1700 mg / L

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96-h LC-50 (bluegill sunfish): 1490 mg / L

168-h LC-50 (guppy): 983 ppm

### OXYGEN DEMAND DATA:

The information found below is based on 100% 2-butoxyethanol!

ThOD: 1.90 g oxygen / g

COD: 2.18 g oxygen / g

BOD-5 at 3 microliter(s) / 1: 1/3 g oxygen / mL

BOD-20 at 3 microliter(s) / 1 : 1.8 g oxygen / mL

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### SECTION 13

### DISPOSAL CONSIDERATIONS

Observe and follow all federal, state, and local regulations. If "used" RCRA criteria must be determined. Flush to drain or storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Consider recycling.

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### SECTION 14

### TRANSPORTATION INFORMATION

U.S DOT SHIPPING NAME:

Not DOT Regulated.

U.S. DOT HAZARD CLASS:

U.S. DOT IDENTIFICATION NUMBER:

U.S. DOT PACKING GROUP NUMBER:

U.S. DOT EMERGENCY GUIDE NUMBER:

U.S. DOT LABELING REQUIREMENTS:

This product is not regulated by DOT

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### SECTION 15

### REGULATORY INFORMATION

#### U.S. FEDERAL REGULATORY INFORMATION:

SARA 302 (40CFR 355.3) Threshold Planning Quantity: Not Applicable

SARA 304 (40CFR 355.40) Reportable Quantity: Not Applicable

SARA 311 (40CFR 370.21) Categories:

Immediate (Acute) Health Effects: No

Delayed (Chronic) Health Effects: No

Fire Hazard:

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

SARA 313 (40CFR 372) Supplier Information:

No chemicals in this product exceed the De Minimus reporting level established by SARA Title III, Section 313 and 40C

EPA Hazard Classification Code: Not Applicable

EPA / TSCA Inventory: No

All components of this product that are required to be on the EPA/TSCA inventory are listed on the inventory.

TSCA SECTION 103 (b) EXPORT NOTIFICATION: Not Applicable

(CERLA) SECTION 103 (40CFR302.4) Comprehensive

Environmental Response, Compensation and Liability Act ): RQ: This product has no RQ value

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### SECTION 16

### OTHER INFORMATION

#### NFPA HAZARD RATING:

**HEALTH:** 1 Moderate    **FIRE:** 0 Slight    **REACTIVITY:** 0 Minimal    **SPECIFIC HAZARD:** None  
HAZARDOUS MATERIALS IDENTIFICATION LABELING (HMIS):

**HEALTH:** 1 Moderate    **FIRE:** 0 Slight    **REACTIVITY:** 0 Minimal    **PERSONAL PROTECTION:** B

**Key: 0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard**

The information contained in this Material Safety Data Sheet has been prepared based upon data believed to be reliable, an evaluation of the ingredients in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for his / her particular purpose(s). It is furnished to our customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Use or dissemination of all or part of this information for any other purpose is prohibited by law.