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*Last Revision Date:* 11/25/08  
*Effective Date:* 11/25/08

## MATERIAL SAFETY DATA SHEET

### PRODUCT IDENTITY: PEAK +32° F PREMIUM WINDSHIELD WASH & BUG CLEANER (PBN0K3)

#### 1. CHEMICAL PRODUCT & COMPANY INFORMATION

OLD WORLD INDUSTRIES, INC.  
4065 COMMERCIAL AVENUE  
NORTHBROOK, ILLINOIS 60062  
PHONE: 847-559-2000  
EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material</u>	<u>CAS#</u>	<u>% by Wt.</u>	<u>PEL</u>	<u>TLV (ACGIH)</u>
2-Butoxyethanol	111-76-2	≤ 1%	25 ppm skin	25 ppm skin
Water	7732-18-5	98% - 99%		

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

CAUTION! May cause eye or skin irritation. May be harmful if inhaled or absorbed through skin. May flash if vapors are ignited, but product will not burn.

Chemical	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	Confirmed animal carcinogen with unknown relevance to humans	Limited data.	Not established.	Not established.

**HMIS® Rating:** Health: 1 Flammability: 1 Physical Hazard: 0  
Personal protection goggles, gloves

#### **4. FIRST AID MEASURES**

***Ensure physician has access to this MSDS.***

**Routes of Entry:** Inhalation (breathing); skin absorption; eye contact.

**Signs and Symptoms of Exposure:**

**Inhalation:** Breathing high concentrations of 2-butoxyethanol may cause respiratory irritation and may cause central nervous system effects (headache, nausea, vomiting, or unconsciousness) and may cause damage to the liver, or kidney, or to the blood or lymph systems. May cause sneezing if mist is generated.

**Eye Contact:** Direct contact with 2-butoxyethanol or exposure to its vapors may cause irritation, redness, burning sensation.

**Skin Contact:** May cause irritation and wet feeling. 2-butoxyethanol is readily absorbed through the skin and may cause liver, kidney, blood or lymph system damage, depending on the duration and level of exposure.

**Ingestion:** Headache, nausea, vomiting, dizziness, gastrointestinal upset.

**Medical Conditions Aggravated by Exposure:** Liver, kidney, blood disease and skin disorders. 2-butoxyethanol is readily absorbed through the skin where it exerts a toxic effect on the liver, kidneys, and hematopoietic system.

#### **TREATMENT**

**Eyes:** Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least fifteen (15) minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.

**Skin:** Wash affected areas with plenty of water and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes and wash before reuse. Seek medical attention if irritation develops or persists.

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

**Ingestion:** Give three (3) to four (4) glasses of water, but **DO NOT** induce vomiting. If vomiting occurs, 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.

**Notes to Physician:** This product contains 2-butoxyethanol, which can cause CNS effects; and can cause liver, kidney, or lymph system damage by inhalation or through skin absorption.

## ***5. FIRE FIGHTING MEASURES***

### ***FIRE & EXPLOSION HAZARD DATA***

#### **Flammable Properties**

Flash Point: >200° F / 93° C

**Flammability Limits** - % of vapor concentration at which product can ignite in presence of spark.

LEL: No data available

UEL: No data available

**Hazardous Combustion Products:** May flash if vapors are ignited, but product will not burn.

**Extinguishing Media:** This product is not flammable. If involved in a fire, use media suitable for the material that is burning.

**Fire Fighting Instructions:** Move containers from area if it can be done without risk.

**Protective Equipment For Fire Fighters:** As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

## ***6. ACCIDENTAL RELEASE MEASURES***

**Protect People:** Wear appropriate protective equipment. (See Section 8.) Keep out of reach of children.

**Protect the Environment:** Mop up small spills. Dike area and absorb into neutral material or pump up for large spills. Absorb with sand or vermiculite. Sweep up and place in a compatible container for later disposal. Residue can be washed with water. Follow federal, state and local requirements regarding disposal.

## ***7. HANDLING AND STORAGE***

**Handling:** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Frequent or prolonged contact with the skin could cause defatting, leading to dryness and cracking. The use of emollient cream is recommended after prolonged skin contact.

**Storage:** Store in a cool, dry, well-ventilated place. Keep container tightly closed when not in use.

## ***8. EXPOSURE CONTROLS / PERSONAL PROTECTION***

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

**Respiratory Protection:** For prolonged exposures, consult an industrial hygienist or other technically qualified person to determine whether respiratory protection is required for the specific work conditions.

**Skin Protection:** Wear rubber or vinyl gloves. The use of an emollient cream is recommended after skin contact. Wear normal work clothing – long pants, sleeves and apron.

**Eye Protection:** ANSI Z87 – Wear safety glasses if there is a potential for splashing this product in the eyes. Have eyewash available.

**Engineering Controls:** Use local exhaust or general dilution ventilation to maintain exposures below established permissible exposure levels.

### **EXPOSURE LIMITS**

<b>Component</b>	<b>Exposure Limits</b>
2-Butoxyethanol	
OSHA PEL	TWA: 50 ppm (skin) STEL: N/E
ACGIH TLV	TWA: 20 ppm (skin) STEL: N/E

## ***9. PHYSICAL AND CHEMICAL PROPERTIES***

<b>Boiling Point:</b>	212° F
<b>Freeze Point:</b>	32° F / 0° C
<b>Pounds/Gallon:</b>	8.32
<b>Volatility by Volume:</b>	< 1%
<b>Specific Gravity (Water =1):</b>	0.99 – 1.00
<b>Water Solubility:</b>	Complete
<b>Appearance:</b>	Clear, slightly opaque, green liquid
<b>Odor:</b>	Mild alcohol odor
<b>pH:</b>	6.5 – 8.5

## ***10. STABILITY & REACTIVITY DATA***

<b>Stability:</b>	Stable.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatibility (Materials to Avoid):</b>	Strong oxidizers; cleaning agents may or may not react.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition will produce CO, CO <sub>2</sub> , and oxides of nitrogen, oxides of carbon and sulfur.
<b>Hazardous Polymerization:</b>	Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

*(for 2-Butoxyethanol)*

RTECS KJ8575000

Inhalation LC <sub>50</sub> (rat)	450 ppm/4 hr.
Inhalation LC <sub>50</sub> (mouse)	700 ppm/7 hr.
Inhalation TC <sub>10</sub> (human)	195 ppm/8 hr. (gastrointestinal effects) 100 ppm (eye, smell, lungs, thorax, respiration effects)
Oral LD <sub>50</sub> (rat)	470 mg/kg
Oral LD <sub>50</sub> (mouse)	1,230 mg/kg
Oral LD <sub>50</sub> (rabbit)	300 mg/kg
Oral TD <sub>10</sub> (woman)	600 mg/kg
Dermal LD <sub>50</sub> (rabbit)	220 mg/kg
Dermal LD <sub>50</sub> (guinea pig)	230 mg/kg
Skin irritation (rabbit)	Mild
Eye irritation (rabbit)	Severe in one study; moderate in a second

**Hazardous Substance Data Bank:** The lethal oral dose of various ethylene glycols in humans is approximately 1.4 ml/kg.

## **12. ECOLOGICAL INFORMATION**

*(for 2-Butoxyethanol)*

LC50 (96 hr) bluegill	1,490 mg/L. Cond: Static, 23° C.
LC50 (24 hr) goldfish	1,650-1,700 mg/L.
LC50 (24 hr) water flea	1,720 mg/L.

## **13. DISPOSAL CONSIDERATIONS**

Observe all applicable federal, state, and local regulations.

**RCRA #** Not regulated

## **14. TRANSPORT INFORMATION**

### **U.S. Department of Transportation**

DOT Hazard Class:	Not regulated
TDG Hazard Class	Not regulated

## 15. REGULATORY INFORMATION

### ***THIS PRODUCT CONTAINS COMPONENT(S) CITED ON THE FOLLOWING REGULATIONS:***

**Inventory Status:** The chemical in this product is either listed on, or exempt from, the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

**Toxic Substances Control Act:** 2-Butoxyethanol is subject to the Preliminary Assessment Information Rule (40 CFR 712.30 (w)) and Health and Safety Data Reporting (40 CFR 716.120(a)).

**OSHA Hazard Communication Standard** (29 CFR 1910.1200): Hazardous

**SARA Toxic Chemicals** (40 CFR 372):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>%</u>
Glycol ethers, including 2-Butoxyethanol	111-76-2	1-5

**SARA 311/312 (RTK):** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD

DELAYED (CHRONIC) HEALTH HAZARD

#### **State Right-To-Know:**

Florida - Hazardous Substances List:	Yes	2-Butoxyethanol
Massachusetts - Right-to-Know List:	Yes	2-Butoxyethanol
Minnesota - Haz. Subs. List:	Yes	2-Butoxyethanol
New Jersey - Right-to-Know List (Total):	Yes	2-Butoxyethanol
Pennsylvania Right-to-Know List:	Yes	2-Butoxyethanol
Rhode Island Hazardous Substance List:	Yes	2-Butoxyethanol

#### **Canadian Regulations:**

**Workplace Hazardous Materials Information System** (CPR Section (33)): This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all required information.

Controlled Product – Classification D2B

## 16. OTHER INFORMATION

**Contact:** Thomas Cholke

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