# Whiting Systems, Inc.

Automated Vehicle Wash Systems | Industrial Power Wash Systems

# SAFETY DATA SHEET

**Issue Date** 01-may-2014 **Revision Date** 27-Jun-2014 **Version** 1

## 1. IDENTIFICATION

**Product Name**
*SmartWash* ® Yellow Jacket R

**Recommended Use** Cleaning agent.

**Supplier Name and Address**
Whiting Systems, Inc.
9000 Highway 5 North Alexander, AR 72002
800-542-9031

**Emergency Telephone**
INFOTRAC 352-323-3500 (International)
800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Signal word**
**Danger**

**Hazard statements**
Causes severe skin burns and eye damage

**Appearance** Yellow liquid

**Physical state** Liquid

**Odor** Characteristic Solvent

**Skin corrosion/irritation** Category 1
**Serious eye damage/eye irritation** Category 1

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do NOT induce vomiting

**Precautionary Statements - Storage**
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% | Trade Secret |
|---|---|---|---|
| Sodium metasilicate pentahydrate | 10213-79-3 | 3 - 7 | * |
| 2-Butoxyethanol | 111-76-2 | 3 - 7 | * |
| Sodium hydroxide | 1310-73-2 | 1 - 5 | * |

## 4. FIRST AID MEASURES

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash mouth and nasal passages with water repeatedly. Call a physician immediately.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Drink plenty of water or milk immediately. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Skin Contact** Wash with soap and water. DO NOT attempt to neutralize with chemical agents. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms:** May cause irritation to the mucous membranes and upper respiratory tract. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness. Exposed individuals may experience eye tearing, redness and discomfort. Contact will cause irritation and redness to exposed areas. Irritates the digestive tract.

**Note to physicians** Treat symptomatically. Existing conditions aggravated by exposure: skin disorders, skin allergies, respiratory disorders, eye disorders.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Carbon dioxide (CO2). Water spray (fog). Dry chemical. Chemical foam.

**Unsuitable Extinguishing Media** Not determined

**Specific hazards arising from the chemical** Keep containers cool with water spray to prevent container rupture due to steam buildup. Material is alkaline and will irritate the eyes if product is allowed to directly contact the eyes.

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment as required.

**Environmental precautions:** For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

**Methods for containment:** Confine and absorb into approved absorbent **Methods for cleaning up:** Place in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use personal protection recommended in Section 8. Protect container from physical damage.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Protect from extreme temperatures.

**Incompatible materials:** Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Ceramics.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| 2-Butoxyethanol | TWA: 20 ppm | TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm | IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3 |
| 111-76-2 | | (vacated) TWA: 120 mg/m3 | |
| | | (vacated) S* S* | |
| Sodium hydroxide | Ceiling: 2 mg/m3 | TWA: 2 mg/m3 | IDLH: 10 mg/m3 |
| 1310-73-2 | | (vacated) Ceiling: 2 mg/m3 | Ceiling: 2 mg/m3 |

**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Provide Eyewash stations.

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/face protection** | Wear approved safety goggles. |
| **Skin and body protection** | Neoprene, butyl or nitrile rubber gloves with cuffs. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. |
| **Respiratory protection** | Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| **General Hygiene Considerations** | Handle in accordance with good industrial hygiene and safety practice. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Property | Values | Remarks • Method | Property | Values |
|---|---|---|---|---|
| **pH** | 13.0-13.2 | | **Specific Gravity** | 1.099 |
| **Melting point/freezing point** | Not determined | **Boiling point** 100 °C / 212 °F **Flash point** Non-flammable | **Kinematic viscosity** | Not Determined |
| **Evaporation rate** | <1 | (water = 1) | **Dynamic viscosity** | Not Determined |
| **Flammability (solid, gas)** | n/a-liquid | | **Explosive properties** | Not Determined |
| **Flammability Limits in Air** | | | **Oxidizing properties** | Not Determined |
| **Upper flammability limits** | Not applicable | | **Autoignition temperature** | Not Determined |
| **Lower flammability limit** | Not applicable | | **Solubility in other solvents** | Not Determined |
| **Vapor pressure** | 17 mm Hg | @ 20 °C | | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous polymerization**
Hazardous polymerization does not occur. Non-hazardous endothermic polymerization may occur in both the liquid and gas phases.

**Conditions to avoid**
Extreme temperatures.

**Incompatible materials**
Strong oxidizing agents. Strong alkalis. Metals. Cyanides. sulfides. Glass. Ceramics.

**Hazardous Decomposition Products**
Decomposition will not occur if handled and stored properly.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Harmful if inhaled. |
| **Eye contact** | Causes severe eye damage. |
| **Skin Contact** | Causes severe skin burns. |
| **Ingestion** | Toxic if swallowed |

**Other adverse effects** Not determined

**Carcinogenicity** Not classifiable as a carcinogen.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| 2-Butoxyethanol | = 470 mg/kg ( Rat ) | = 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit ) | = 2.21 mg/L ( Rat ) 4 h = 450 ppm |
| 111-76-2 | | | ( Rat ) 4 h |
| Sodium hydroxide | - | = 1350 mg/kg ( Rabbit ) | - |
| 1310-73-2 | | | |

## 12. ECOLOGICAL INFORMATION

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

**Other adverse effects** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes/Contaminated packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status:** Sodium hydroxide 1310-73-2 Toxic Corrosive

## 14. TRANSPORT INFORMATION

**DOT** Not regulated **IATA** Not regulated **IMDG** Not regulated

## 15. REGULATORY INFORMATION

**US Federal Regulations**

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold % |
|---|---|---|---|
| 2-Butoxyethanol | 111-76-2 | 2 to 7 | 1 |

**U.S. State Right-to-Know Regulations**

| Chemical Name | NJ | MASS | PENN |
|---|---|---|---|
| 2-Butoxyethanol | X | X | X |
| 111-76-2 | | | |
| Sodium hydroxide | X | X | X |
| 1310-73-2 | | | |

**SARA 311/312 Hazard Categories**

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Sodium hydroxide | 1000 lb | | | X |
| 1310-73-2 | | | | |

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Sodium hydroxide 1310-73-2 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

## 16. OTHER INFORMATION

| NFPA | Health hazards | Flammability | Instability | Special Hazards |
|---|---|---|---|---|
| | Not determined | Not determined | Not determined | Not determined |

| HMIS | Health hazards | Flammability | Physical hazards | Personal protection |
|---|---|---|---|---|
| | 3 | 0 | 0 | Not Determined |

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**