

1. IDENTIFICATION

Product Identifier

Product Name *SmartWash® Super Green*

Details of the supplier of the safety data sheet

Supplier Address
Whiting Systems, Inc.
9000 Highway 5 North Alexander, AR 72002

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning agent.

Company Phone Number (501) 847-9031

Emergency Telephone
INFOTRAC 1 (352) 323-3500 (International)
1 (800) 535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation
Serious eye damage/eye irritation

Category 1 Sub-category C

Precautionary Statements - Prevention

Category 1 Do not breathe dust/fume/gas/mist/vapors/spray

Signal word

Hazard statements

Causes skin irritation

Causes serious eye damage

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Danger

Appearance Green liquid **Physical state** Liquid **Odor** Characteristic Solvent



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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
2-Butoxyethanol	111-76-2	1-5	*
Sodium metasilicate pentahydrate	10213-79-3	1 - 5	*
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 contact may even cause severe skin irritation or mild burn. Exposed individuals may experience eye tearing, redness and discomfort. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting

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. 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. Floor will become slippery if material is released. 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, protective equipment and emergency procedures

Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Wash small spills to sanitary sewer. Large spills-confine spill, soak up with approved absorbent, and shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to 40 CFR 302 for detailed instructions concerning reporting requirements.

7. HANDLING AND STORAGE

Precautions for 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 tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Protect from extreme temperatures.

Incompatible materials

Strong oxidizing agents, strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m3	IDLH: 700 ppm TWA: 5 ppm TWA:
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m3	TWA: 2 mg/m3 (vacated) Ceiling: 2 mg/m3	IDLH: 10 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). Eyewash stations. Showers

SmartWash® Super Green

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.
Respiratory protection None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Respiratory protection must be provided in accordance with 29 CFR 1910.134 European Standard EN 149
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.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Melting point/freezing point	Not determined	Vapor pressure	17 mm Hg	Kinematic viscosity	Not determined
Boiling point/boiling range	100 °C / 212 °F	Vapor density	>1	Dynamic viscosity	Not determined
Flash point	Non-flammable	Specific Gravity	1.038	Explosive properties	Not determined
Evaporation rate	<1	Water solubility	Completely soluble	Oxidizing properties	
Flammability (solid, gas)	n/a-liquid	pH	13.0 – 13.5		
Flammability Limits in Air		Partition coefficient	Not determined		
Upper flammability limits	Not applicable	Autoignition temperature	Not determined		
Lower flammability limit	Not applicable	Decomposition temperature	Not determined		

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** Does not occur.
Conditions to avoid Extreme temperatures. **Incompatible materials** Strong oxidizing agents, strong acids.
Hazardous Decomposition Products Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation Avoid breathing vapors or mists. **Eye contact** Causes serious eye damage.
Skin Contact Causes skin irritation. **Ingestion** Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal 50	Inhalation LC50
2-Butoxyethanol 111-76-2	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	2.21 mg/kg (Rat) 4h 450 ppm(Rat) 4h
Sodium hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from sort and long-term exposure

Carcinogenicity Not classifiable as a human carcinogen.

Numerical measures of toxicity- Product Not determined.

12. ECOLOGICAL INFORMATION

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

Persistence and degradability	Bioaccumulation	Mobility	Other adverse effects
Not determined.	Not determined.	Not determined.	Not determined

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

US Federal Regulations

Chemical Name	CAS Number	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	3 - 7	1

Not determined.

16. OTHER INFORMATION

NFPA

NFPA	Health hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	Health hazards	Flammability	Physical hazards	Personal protection
	1	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 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