# Whiting Systems, Inc.

## **SAFETY DATA SHEET**

Automated Vehicle Wash System



Systems Industrial Power Wash

Issue Date 09-Aug-2006

Revision Date 31-Jan-2013

Version 1

#### 1. IDENTIFICATION

**Product Identifier** 

Product Name SmartWash Bugs Off

Other means of identification

**SDS** # WS-010

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning agent.

Details of the supplier of the safety data sheet

**Supplier Address** 

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

Emergency telephone number

Company Phone Number Emergency Telephone 1-800-542-9031

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

#### Classification

Specific target organ toxicity (single exposure)

Category 3

## Signal word Warning

#### **Hazard statements**

May cause respiratory irritation. May cause drowsiness or dizziness



Appearance Clear, colorless liquid

Physical state Liquid

Odor Chemical odor

**Precautionary Statements - Prevention** 

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not Applicable
Other Information
Not Applicable

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
1-Methoxy-2-propanol	107-98-2	10-30	*
1,2 Propanediol	57-55-6	7-13	*

#### 4. FIRST AID MEASURES

#### First aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician

if you feel unwell.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

**Ingestion** If swallowed, do not induce vomiting except at the direction of medical personnel. Never

give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact** Wash with soap and water. 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. Direct contact with eyes may cause temporary irritation. Ingestion of large amounts may be irritating if product is swallowed, may cause nausea, headache, vomiting and/or diarrhea.

## Indication of any immediate medical attention and special treatment needed

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. 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.

#### 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

**Personal precautions**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. Wash spill area with

plenty of water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Use only in well-ventilated areas. Protect container from physical damage.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

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
1-Methoxy-2-propanol	STEL: 150 ppm	(vacated) TWA: 100 ppm	TWA: 100 ppm
107-98-2	TWA: 100 ppm	(vacated) TWA: 360 mg/m <sup>3</sup>	TWA: 360 mg/m <sup>3</sup>
		(vacated) STEL: 150 ppm	STEL: 150 ppm
		(vacated) STEL: 540 mg/m <sup>3</sup>	STEL: 540 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Controls**Apply technical measures to comply with the occupational exposure limits. Provide

sufficient mechanical ventilation to maintain exposure below TLV(s). 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**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 OSHA regulations (29 CFR1910.134) or European

Standard EN 149, as applicable.

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

Physical state Liquid

AppearanceClear, colorless liquidOdorChemical odorColorColorlessOdor thresholdNot determined

Property Values Remarks • Method

<del>pH</del> 7.5-7.8

Melting point/freezing point

Boiling point/boiling range
Not determined
100 °C / 212 °F
Flash point
Non-flammable

Evaporation rate <1 (water = 1)

Flammability (solid, gas) n/a-liquid

Flammability Limits in Air

Upper flammability limitsNot applicableLower flammability limitNot applicable

Vapor pressure17 mm Hg@ 20 °CVapor density>1(Air=1)

**Specific Gravity** 0.997 Water solubility Completely soluble Solubility in other solvents Not determined Partition coefficient Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic viscosity** Not determined **Explosive properties** Not determined **Oxidizing properties** Not determined

**Other Information** 

## 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.

#### Conditions to avoid

Extreme temperatures. Keep from freezing.

#### 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

#### **Product Information**

**Inhalation** Avoid breathing vapors or mists.

**Eye contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Ingestion** Do not taste or swallow.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-Methoxy-2-propanol 107-98-2	= 5200 mg/kg ( Rat )	= 13000 mg/kg ( Rabbit )	= 54.6 mg/L (Rat) 4 h > 24 mg/L ( Rat) 1 h
1,2 Propanediol 57-55-6	= 20000 mg/kg ( Rat )	= 20800 mg/kg ( Rabbit )	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

## **Numerical measures of toxicity- Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

 ATEmix (oral)
 22989 mg/kg

 ATEmix (dermal)
 49505 mg/kg

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	

1-Methoxy-2-propanol 107-98-2		20.8: 96 h Pimephales promelas g/L LC50 static 4600 - 10000: 96 h Leuciscus idus mg/L LC50 static	23300: 48 h Daphnia magna mg/L EC50
1,2 Propanediol 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static

## Persistence and degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### Mobility

Not determined.

Chemical Name	Partition coefficient
1-Methoxy-2-propanol	-0.437
107-98-2	

Other adverse effects Not determined

## 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC

- China Inventory of Existing Chemical Substances KECL -

Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

## SARA 311/312 Hazard Categories

## **US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
1-Methoxy-2-propanol 107-98-2	X	X	X
1,2 Propanediol 57-55-6	X		X

**16. OTHER INFORMATION** 

#### U.S. EPA Label Information

NFPA	Health hazards	Flammability	Instability	Special Hazards
HMIS	Not determined  Health hazards	Not determined Flammability	Not determined  Physical hazards	Not determined Personal protection
	1	0	0	Not determined

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Revision Note
new format
Disclaimer

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**End of Safety Data Sheet**