

MATERIAL SAFETY DATA SHEET

OSHA-Meets 29 CFR 1910.1200 Standards Whiting Systems, Inc. Automated Vehicle Wash Systems Industrial Power Wash Systems Est. 1974	<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center; border-bottom: none;">HMIS HAZARD RATINGS</th> </tr> <tr> <td style="border-right: none;">HEALTH</td> <td style="border-right: none; text-align: center;">2</td> <td style="border-right: none;">0 = INSIGNIFICANT</td> <td style="border-right: none;">3 = HIGH</td> </tr> <tr> <td style="border-right: none;">FLAMMABILITY</td> <td style="border-right: none; text-align: center;">0</td> <td style="border-right: none;">1 = SLIGHT</td> <td style="border-right: none;">4 = EXTREME</td> </tr> <tr> <td style="border-right: none;">REACTIVITY</td> <td style="border-right: none; text-align: center;">0</td> <td style="border-right: none;">2 = MODERATE</td> <td style="border-right: none;"></td> </tr> <tr> <th colspan="4" style="text-align: center; border-top: none;">TRANSPORTATION INFORMATION</th> </tr> <tr> <td style="border-right: none;">PROPER SHIPPING NAME</td> <td colspan="3" style="border-right: none;">Potassium hydroxide solution</td> </tr> <tr> <td style="border-right: none;">HAZARD CLASS/PKG GRP</td> <td style="border-right: none;">8 / III</td> <td style="border-right: none;">REF:</td> <td style="border-right: none;">49 CFR 173.154, .201, .241</td> </tr> <tr> <td style="border-right: none;">IDENTIFICATION NUMBER</td> <td style="border-right: none;">UN 1814</td> <td style="border-right: none;">LABEL:</td> <td style="border-right: none;">CORROSIVE</td> </tr> </table>	HMIS HAZARD RATINGS				HEALTH	2	0 = INSIGNIFICANT	3 = HIGH	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME	REACTIVITY	0	2 = MODERATE		TRANSPORTATION INFORMATION				PROPER SHIPPING NAME	Potassium hydroxide solution			HAZARD CLASS/PKG GRP	8 / III	REF:	49 CFR 173.154, .201, .241	IDENTIFICATION NUMBER	UN 1814	LABEL:	CORROSIVE
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SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) SmartWash® Formula 25	Page 1 of 2
MANUFACTURER'S NAME Whiting Systems, Inc.	EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053
ADDRESS 9000 Highway 5 North	TELEPHONE NUMBER FOR INFORMATION (800) 542-9031
CITY, STATE, ZIP CODE Alexander, AR 72002	DATE PREPARED: November 23, 2004 SUPERSEDES: February 26, 1999

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS <small>SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S)</small>	CAS #	% <small>(OPTIONAL)</small>	OSHA PEL		ACGIH TWA		SARA	RQ
			PPM	MG/M3	PPM	MG/M3	TITLE III	LBS
Potassium hydroxide (a,b)	1310-58-3	15 - 40	2 C		2 C		1000	

(a) The comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs.) or greater amounts, according to 40 CFR 302.

(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Corrosive and irritating to upper respiratory tract and mucous membranes.	Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.
SKIN: Corrosive and irritating; chemical burns may result from contact; severe irritant.	Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.
EYES: Contact with eyes is painful and irritating and will cause chemical burns.	Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
INGESTION: Corrosive and irritating to digestive tract; may cause gastric distress, stomach pains and vomiting.	Drink large quantities of water or milk; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.

CARCINOGENICITY NPT? No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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IDENTITY (AS USED ON LABEL AND LIST)

SmartWash ® Formula 25

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Date: November 23, 2004

SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT

Non-flammable

NFPA RATING

None

FLAMMABLE LIMITS

LEL: Not applicable UEL: Not applicable

EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam.

SPECIAL FIRE FIGHTING PROCEDURES

Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. CAUTION -material is corrosive.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Large spills -confine spill, soak up with approved absorbent, 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 CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

SECTION 7- EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE)

None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

VENTILATION

LOCAL EXHAUST: Required

SPECIAL:

To maintain minimum TWA and STEL levels.

MECHANICAL (GENERAL): Yes

OTHER:

Engineering and work controls as required.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Coveralls, apron, or other equipment should be worn to prevent skin contact, safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT:

212° F

SPECIFIC GRAVITY (WATER = 1)

1.23

pH

14

SOLUBILITY IN WATER

Complete

VAPOR PRESSURE (MM Hg)

17 mm Hg @ 20 ° C

VAPOR DENSITY (AIR = 1)

> 1

EVAPORATION RATE (WATER = 1)

> 1

% VOLATILE (BY WEIGHT)

73.70%

APPEARANCE AND ODOR

Clear liquid, characteristic odor

SECTION 9 - STABILITY AND REACTIVITY

STABILITY

UNSTABLE:

STABLE: XXX

CONDITIONS TO AVOID:

Extreme temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, strong acids, strong alkalies.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION

MAY OCCUR:

WILL NOT OCCUR: XXX

CONDITIONS TO AVOID: None

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for alkaline materials. Consult your local, state, or Federal Environmental Protection Agency before Disposing of any chemicals.

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Whiting Systems, Inc. provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Whiting Systems, Inc. knows of no medical condition, other than those noted on this material safety data sheet, which are generally recognized as being aggravated by exposure to this product.