

MATERIAL SAFETY DATA SHEET

OSHA-Meets 29 CFR 1910.1200 Standards

HMIS HAZARD RATINGS

Whiting Systems, Inc.

Automated Vehicle Wash Systems



Industrial Power Wash Systems

Est. 1974

HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	1	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME	Not regulated		
HAZARD CLASS/PKG GRP	Not regulated	REF:	49 CFR 173.154, .203, .241
IDENTIFICATION NUMBER	Not regulated	LABEL:	Not regulated

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

SmartWash® SW-1A

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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:

September 1, 2006

SUPERSEDES:

November 30, 2004

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
Citric acid	77-92-9	3 - 7	not established					

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
<p>INHALATION: Irritating to upper respiratory tract. Symptoms may include coughing, shortness of breath.</p>	Remove affected person to fresh air; if breathing has not returned to normal within a few minutes after exposure, get medical attention.
<p>SKIN: Causes irritation to skin. Symptoms include redness, itching, and pain.</p>	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
<p>EYES: Highly irritating, may also be abrasive.</p>	Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
<p>INGESTION: Causes irritation to the gastrointestinal disturbances. Calcium deficiency in blood may result in severe case of ingestion.</p>	Induce vomiting; seek medical attention immediately. Never give anything by mouth to an unconscious person.

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

MATERIAL SAFETY DATA SHEET			
IDENTITY (AS USED ON LABEL AND LIST) SmartWash® SW-1A		PAGE 2 of 2	Date: September 1, 2006
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 wear full protective clothing and NIOSH approved self-contained breathing apparatus with full facepiece.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			
SECTION 5 - ACCIDENTAL RELEASE MEASURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 4. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.			
SECTION 6 - HANDLING AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.			
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) 1.087	pH 1.0 - 1.5	SOLUBILITY IN WATER Complete
VAPOR PRESSURE (MM Hg) No information found	VAPOR DENSITY (AIR = 1) No information found	EVAPORATION RATE (WATER = 1) No information found	% VOLATILE (BY VOLUME)@70F 0
APPEARANCE AND ODOR Greenish Clear liquid, No Detectable Odor			
SECTION 9 - STABILITY AND REACTIVITY			
UNSTABLE:	STABILITY STABLE: XXX	CONDITIONS TO AVOID: Heat, flames, ignition sources and incompatibles	
INCOMPATIBILITY (MATERIALS TO AVOID): Metal nitrates (potentially explosive reaction), alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition			
HAZARDOUS POLYMERIZATION MAY OCCUR:		CONDITIONS TO AVOID: None	
WILL NOT OCCUR: XXX			
SECTION 10 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations.. 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.			