Whiting Systems, Inc. SAFETY DATA SHEE	ET
Wash Systems Wash Systems Issue Date October 31, 2013 Revision Date October 31, 2013	Version 1
1. IDENTIFICATION	Version
Product Identifier Recommended use of the chemical and restrictions on use	
Product Name SmartWash® Lightning .5 Recommended Use Cleaning agent. Details of the supplier of the safety data sheet inder Company Phone Number	(501) 847-9031
Supplier Address Emergency Telephone	(301) 847-9031
Whiting Systems, Inc. INFOTRAC 1-352-323-3500 (International)	
9000 Highway 5 North Alexander, AR 72002 1-800-535-5053 (North America)	
2. HAZARDS IDENTIFICATION	
Classification Acute toxicity - Oral Category 3 Skin corrosion/irritation Category 1 Sub-category B	
Acute toxicity - Dermal Category 2 Serious eye damage/eye Category 1	
Acute toxicity - Inhalation Category 4 Precautionary Statements - Prevention	
Signal word Appearance Colorless liquid	
Danger Toxic if swallowed Physical state Liquid Fatal in contact with skin Odor Acrid Acid odor	
Harmful if inhaled IF SWALLOWED: Rinse mouth. DO NOT induce vomitir	ng
Causes severe skin burns and eye damage	•
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	ace protection
Do not get in eyes, on skin, or on clothing Do not breathe dust/fume/gas/mist/vapors/spray	
Precautionary Statements - Response Immediately call a POISON CENTER or doctor/physician	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing	
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower	
3. COMPOSITION/INFORMATION ON INGREDIENTS	
Chemical Name CAS No Weight-% Trade Se	cret
Hydrofluoric acid 7664-39-3 2.5-5 * Phosphoric acid 7664-38-2 1.5-3.5 *	
4. FIRST AID MEASURES	
General advice When seeking medical attention, emphasize exposure to hydrofluoric acid.	
Inhalation Eye contact	bin
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 or poison control center immediately.	inutes. Call a
Calcium Gluconate in saline solution.	
Rinse mouth. Do NOT induce vomiting. Drink high amounts of calcium based Skin Contact	
antacid in water followed by milk or milk of magnesia. Never give anything by Wash off immediately with plenty of water. Take off of	
mouth to an unconscious person. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Immediat required. Apply 2.5% Calcium Gluconate ointment to c	
Martine at the second off at hoth and a land of one form	
Most important symptoms and effects, both acute and delayed Symptoms Vapor causes irritation to nasal and respiratory passages. Irritation and corrosive burns to mouth, throat, and stomach. Causes pain of eyes and lids, watering of eyes. Prolonged contact may even cause severe skin irritation or mild burn. May cause severe burns to body tissue.	
Physiciana Tract symptometically, Inholing UE yapara can pariovaly demographic lunge. Delayed repetices up to and including fateling	ulmonon / odomo
Physicians Treat symptomatically. Inhaling HF vapors can seriously damage the lungs. Delayed reactions up to and including fatal p may not be apparent for hours after the initial exposure. In 20%-50% HF concentrations, burns can be delayed 1 to 8 hours. Concent than 20% HF may cause delayed painful erythema up to 24 hours after contact. Latent skin burns and necrosis with slow healing can at concentrations of 2% HF.	trations of less
5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media Carbon dioxide (CO2). Water. Water spray (fog). Dry chemical. Chemical foam.	
Unsuitable Extinguishing Media Do not use solid streams of water, except to cool closed containers. Specific hazards arising from the chemical Protective equipment and precautions for firefig	htoro
Keep containers cool with water spray to prevent container rupture due to steam As in any fire, wear self-contained breathing appara	
buildup. Contents are corrosive and all personal contact must be avoided demand, MSHA/NIOSH (approved or equivalent) ar	
Contact with B:C extinguisher powder may produce large amounts of carbon protective gear. dioxide. Contact with metals may evolve flammable hydrogen gas.	
6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Use personal protective equipment as required	1
Methods and material for containment and cleaning up Methods for containment Environmental precautions Methods for containment	
Do not allow into any sewer, on the ground or into any body of water. For spills in excess of allowable limits (RQ) notify the National F (800) 424-8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning repo	
Methods for cleaning up	
Wash small spills to sanitary sever. Large spills-confine spill, soak up with approved absorbent, and shovel product into approved container for disposa	
For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to 40 CFR 302 for detailed instructions concernin 7. HANDLING AND STORAGE	ng reporting requirements.
Precautions for safe handling Advice on safe handling	
Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this pro dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Protect co damage.	
Storage Conditions Keep tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Protect from ext	· · · · · · · · · · · · · · · · · · ·
Incompatible materials Strong oxidizing agents. strong acids. Packaging materials This product will attack glass, concrete, ar	iu certain metals.

	8.	EXPOSURE CONTROLS/	PERSONAL PROTECTION		
Exposure Guidelines					
Chemical Name		ACGIH TLV	OSHA PEL	NI	OSH IDLH
Hydrofluoric acid 7664-39-		5 ppm F TWA: 2.5 mg/m3F S*Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/ (vacated) TWA: 3 ppm F (vacate 2.5 mg/m3 (vacated) STEL: 6	ed) TWA: Ceiling: 5 mg	Ceiling: 6 ppm 15 min /m3 15 min TWA: 3 VA: 2.5 mg/m3
Phosphoric acid 7664-38-	2 STEL:	3 mg/m3TWA: 1 mg/m3	TWA: 1 mg/m3 (vacated) TWA: (vacated) STEL: 3 mg/m3	1 mg/m3 IDLH: 1000 mg/ 3	m3TWA: 1 mg/m3STE 3 mg/m3
	ply technical measur posure below TLV(s)		pational exposure limits. Provide	e sufficient mechanical v	ventilation to maintai
ndividual protection measur					
Eye/face protection We	ear approved safety	goggles.	Skin and body protection Saran	nex, Barricade, Chemrel, Re	esponder, or Butyl rubb
entilation. If the occupational e espirator with acid gas cartridges oncentration of the contaminant	exposure limits are exposure limits are exposure limits are experied air respirate s should be used. Set	xceeded, a NIOSH approved or appropriate for the form and lection and use of respiratory		ent skin contact.	ol, or polyvinyl chloric ves, lab coat, apron
ractice.	e with OSHA 1910.134	4 and good industrial hygiene	General Hygiene Considerat		l aafatu praatiaa
		9. PHYSICAL AND CHE	Handle in accordance with goo	ou industrial hygiene and	a salety practice.
nformation on basis physics	and chemical pro				
nformation on basic physica Aelting point/freezing point	Not determined	perties pH Vapor pressure	<u><1</u> 17 mm Hg @ 20 °C K i	inomatia viacoaity	Not determine
Boiling point/boiling range				-	Not determine
0, 0, 0	100 °C / 212 °F	Vapor density	• • •	ynamic viscosity	
lash point	Non-flammable	Specific Gravity		kplosive properties	Not determine
vaporation rate	<1 (water = 1)	Water solubility	Completely soluble Ox	xiaizing properties	
lammability (solid, gas)	n/a-liquid	Solubility in other solve			
lammability Limits in Air	Not applicable	Partition coefficient	Not determined		
Jpper flammability limits	Not applicable	Autoignition temperatu			
ower flammability limit	Not applicable	Decomposition temper			
		10. STABILITY A			
Reactivity Not reactive un	nder normal condition	ns <u>Chemical stabilit</u>	y Stable under recomm	nended storage condition	ns.
Cossibility of Hazardous Rea Conditions to avoid Ex Hazardous Decompositio	treme temperatures.	under normal processing. Incompatible materia	Hazardous polymerization Is Strong oxidizing agents. Ceramics.	Does not occur. Strong alkalis. Metals. Cy	vanides. sulfides. Glas
ecomposition will not occur if han	dled and stored properl		oon, hydrocarbons, fumes or vapors	s, and smoke may be produc	ced.
		11. TOXICOLOGIC	AL INFORMATION		
nformation on likely routes of	of exposure	Inhalation Harmful if i	inhaled. Ey	ye contact Causes se	evere eye damage.
-		Fatal in contact with skin. Caus	ses severe skin burns.	gestion Toxic if swal	
-	<u>Skin Contact</u> Chemical N Hydrofluc	Fatal in contact with skin. Caus lame/CAS # pric acid	ses severe skin burns.	gestion Toxic if swal rmal LD50 (= 850	lowed. Inhalation LC50
-	Skin Contact Chemical N Hydrofluc 7664	Fatal in contact with skin. Caus lame/CAS # pric acid -39-3	ses severe skin burns. In Oral LD50 De	rmal LD50 - (= 850	lowed. Inhalation LC50 I mg/m3) (Rat)1h = ?76 ppm (Rat)1h
Component Information	Skin Contact Chemical N Hydrofluc 7664 Phosphoric a	Fatal in contact with skin. Caus lame/CAS # oric acid -39-3 cid7664-38-2 15	ses severe skin burns. In Oral LD50 Der - 330 mg/kg (Rat) 2730 m	gestion Toxic if swal rmal LD50 (= 850 12 ng/kg (Rabbit) >85	lowed. Inhalation LC50
nformation on likely routes of Component Information Carcinogenicity This prod Numerical measures of toxic	Skin Contact Chemical N Hydrofluc 7664 Phosphoric a uct does not contain	Fatal in contact with skin. Caus lame/CAS # oric acid -39-3 cid7664-38-2 15 any carcinogens or potentia	ses severe skin burns. Oral LD50 Der - 330 mg/kg (Rat) 2730 m al carcinogens as listed by OSH ilated based on chapter 3.1 of tl	gestion Toxic if swal rmal LD50 (= 850 12 ng/kg (Rabbit) >850 IA, IARC or NTP.	lowed. Inhalation LC50 Img/m3) (Rat)1h = 176 ppm (Rat)1h 0 mg/m3 (Rat)1h
Component Information Carcinogenicity This produced the second se	Skin Contact Chemical N Hydrofluc 7664- Phosphoric a uct does not contain ity- Product No	Fatal in contact with skin. Caus lame/CAS # pric acid -39-3 cid7664-38-2 15 any carcinogens or potentia ot determined. Values calcu 12. ECOLOGICAL	ses severe skin burns. In Oral LD50 Der - 330 mg/kg (Rat) 2730 m al carcinogens as listed by OSH llated based on chapter 3.1 of th INFORMATION	gestion Toxic if swal rmal LD50 - (= 850 12 ng/kg (Rabbit) >85 IA, IARC or NTP. he GHS. ATEmix (derma	lowed. Inhalation LC50 1 mg/m3) (Rat)1h = 176 ppm (Rat)1h 0 mg/m3 (Rat)1h
Component Information Carcinogenicity This produced the second se	Skin Contact Chemical N Hydrofluc 7664 Phosphoric a uct does not contain ity- Product Natal hazard cannot be	Fatal in contact with skin. Caus lame/CAS # oric acid -39-3 cid7664-38-2 15 any carcinogens or potentia of determined. Values calcu 12. ECOLOGICAL e excluded in the event of u	ses severe skin burns. Oral LD50 Der - 330 mg/kg (Rat) 2730 m al carcinogens as listed by OSH lated based on chapter 3.1 of th - INFORMATION INFORSIONAL handling or disport cumulation	gestion Toxic if swal rmal LD50 (= 850 12 ng/kg (Rabbit) >85 IA, IARC or NTP. he GHS. ATEmix (derma baal Mobility Othe	lowed. Inhalation LC50 Img/m3) (Rat)1h = 176 ppm (Rat)1h 0 mg/m3 (Rat)1h
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