

Est. 1974

**Safety Data Sheet** 

Issue Date: 17-Sep-2014 Revision Date: 18-Sep-2014 Version 1 **1. IDENTIFICATION** Product Identifier **Product Name** SmartWash Tornado F-5 Other means of identification SDS # WS-059 **UN/ID No** UN3266 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** 1-800-542-9031 **Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America) 2. HAZARDS IDENTIFICATION Appearance Purple liquid Physical State Liquid Odor Characteristic Detergent Classification Skin corrosion/irritation Category 1 Sub-category C Serious eye damage/eye irritation Category 1 Signal Word Danger **Hazard Statements** Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **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 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 or doctor/physician

IF SWALLOWED: rinse mouth. Do NOT induce vomiting

## **Precautionary Statements - Storage**

Store locked up

# Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Harmful to aquatic life with long lasting effects <u>Unknown Acute Toxicity</u> 1-5% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium metasilicate pentahydrate	10213-79-3	1-5
Sodium hydroxide	1310-73-2	1-5
Tetrasodium EDTA	64-02-8	1-5
Phosphorous acid	10294-56-1	1-5
Phosphoric Acid	7664-38-2	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST-AID MEASURES

### First Aid Measures

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.
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.
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.
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.

# Most important symptoms and effects

SymptomsMay cause irritation to the mucous membranes and upper respiratory tract. Prolonged<br/>contact may even cause severe skin irritation or mild burn. Exposed individuals may<br/>experience eye tearing, redness and discomfort. May cause gastrointestinal irritation,<br/>nausea, diarrhea, and vomiting.

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

#### Notes to Physician

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

Personal Precautions	Use personal protective equipment as required.	
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.	
Methods for Clean-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	

# 7. HANDLING AND STORAGE

302 for detailed instructions concerning reporting requirements.

## Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. 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. Keep locked up and out of reach of children. Protect from extreme temperatures.
Incompatible Materials	Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium metasilicate pentahydrate 10213-79-3	-	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	-
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Phosphoric Acid 7664-38-2	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup> (vacated) STEL: 3 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 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, su	ch 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 Appearance Color	Liquid Purple liquid Purple	Odor Odor Threshold	Characteristic Detergent Not determined
Property	<u>Values</u>	Remarks • Method	
pH	12.5-13.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	Non-flammable		
Evaporation Rate	<1	(Water = 1)	
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	Not determined		
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	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

Hazardous polymerization does not occur.

### Conditions to Avoid

Extreme temperatures.

### Incompatible Materials

Strong oxidizing agents.

### 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	
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate pentahydrate 10213-79-3	847 mg/Kg (rat)	-	-
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)	-	-
Phosphoric Acid 7664-38-2	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m³ (Rat)1 h

## 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.

# Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity** 

1-5% of the mixture consists of ingredient(s) of unknown toxicity.

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Harmful to aquatic life with long lasting effects.

# Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide		45.4: 96 h Oncorhynchus		
1310-73-2		mykiss mg/L LC50 static		
Tetrasodium EDTA	1.01: 72 h Desmodesmus	41: 96 h Lepomis		610: 24 h Daphnia magna
64-02-8	subspicatus mg/L EC50	macrochirus mg/L LC50		mg/L EC50
		static 59.8: 96 h Pimephales		
		promelas mg/L LC50 static		

### Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

# <u>Mobility</u>

Not determined

## 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.

# California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Toxic
1310-73-2	Corrosive
Phosphoric Acid 7664-38-2	Corrosive

# **14. TRANSPORT INFORMATION**

Please see current shipping paper for most up to date shipping information, including

#### Note

	exemptions and special circumstances.		
DOT UN/ID No Proper Shipping Name Hazard Class Packing Group	UN3266 Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide, sodium metasilicate) 8 III		
IATA UN/ID No Proper Shipping Name Hazard Class Packing Group	UN3266 Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide, sodium metasilicate) 8 III		
IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group	UN3266 Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide, sodium metasilicate) 8 III		

# **15. REGULATORY INFORMATION**

# International Inventories

Not determined

#### 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

AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

# CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Phosphoric Acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2 (1-5)	1000 lb			Х
Phosphoric Acid 7664-38-2 (1-5)	5000 lb			Х

# US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	Х	X	Х
Phosphoric Acid 7664-38-2	Х	X	Х

# **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards Not determined Health Hazards 2	Flammability Not determined Flammability 0	<b>Instability</b> Not determined <b>Physical Hazards</b> 0	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date: Revision Note:	17-Sep-2014 18-Sep-2014 New format			

#### **Disclaimer**

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 a 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**