

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ZT-WASH
Manufacture/Supplier: Midbrook, Inc.
Address: 2080 Brooklyn Road
Jackson, MI 49203
United States of America
Phone Numbers: Phone - 517-787-3481
Fax -517-787-2349
Emergency Phone Numbers: USA Chemtrec 800-424-9300
International Chemtrec 703-527-3887
Effective Date: 10/11/2010

2. COMPOSITION/HAZARDOUS INFORMATION

INGREDIENT	WT%	TLV/PEL*	CAS#
Citric Acid	10-20		77-92-9

3. HAZARD IDENTIFICATION

Primary Routes of Entry

Skin: Tests on similar materials indicate that irritation and corrosive effects are expected to occur with short term exposure.
Eyes: Tests on similar materials suggests that corrosive irritation may occur on contact.
Ingestion: Tests on similar materials indicate corrosive effects are expected.
Inhalation: Tests on similar materials indicate corrosive effects are expected.

4. FIRST AID MEASURES

First Aid – Eye Wash out eye with plenty of water for at least 15 minutes. Obtain medical attention if soreness or redness persists.
First Aid – Skin Remove product soaked clothing. Wash skin with soap and water. Launder soaked clothing before reuse. If skin irritation or rash develops obtain medical assistance.
First Aid – Ingestion Do not induce vomiting. Obtain medical attention.
First Aid – Inhalation Move to fresh air and provide oxygen if necessary. Obtain emergency medical attention.

5. FIRE FIGHTING MEASURES

Flammable properties: Flash Point: **none°F (ASTM D-56)**
Flammable limits in air: **N/A**
Auto ignition temperature: **N/A**
Extinguishing Media Use foam, dry chemical or carbon dioxide.
Special fire fighting measure: This product may give rise to hazardous fumes in a fire. Use self contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used only to keep surrounding containers cool. Residues of this material may support combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Spillages	Material can create slippery conditions underfoot. Transfer into suitable containers for recovery or disposal.
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7. HANDLING AND STORAGE

Handling	Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.
Storage	Storage temperature should be controlled to between 1 and 40°C.
Work Practices	Wash thoroughly after handling. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Control Measures	Use adequate ventilation.
Hand protection	Use a good quality barrier cream or rubber gloves.
Eye Protection	Glasses or goggles. Have eye wash available.
Body Protection	Chemical apron if splashing is likely.
Respiratory Protection	Not required if adequate ventilation. Use NIOSH approved respirator in confined areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear Liquid
Color	Pink
Odor	Characteristic
Boiling Point	>212°F
Vapor Pressure	N/A°F
% Volatile by Volume	>50% as water
Vapor Density(air=1)	>1
Reactivity in Water	Non-reactive
Solubility in Water	Soluble
Evaporation Rate (water=1)	1
Specific Gravity	1.057
pH @ 10:1	2.3

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Sources of ignition.
Materials to Avoid	Strong oxidizing agents or reducing agents, bases .
Decomposition Products	Oxides of Carbon, Hydrogen.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Low order of acute toxicity.
Eye Effects	Corrosive on contact.
Skin Effects	May cause mild irritation with prolonged and repeat contact.
Acute Oral Effects	Corrosive oral toxicity.
Acute Inhalation Effects	Corrosive toxicity expected on inhalation.

This product is not listed as a carcinogenic or a potential carcinogen by the National Toxicology Program, by I.A.R.C. monographs or by OSHA.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations. If used RCRA criteria must be determined. Product may be amenable to sewer if neutralized to adjust pH; if not permitted use a certified disposal service.
Container Disposal	No specific measures necessary.

14. TRANSPORTATION INFORMATION

Shipping Name	Corrosive liquid(Phosphoric acid).
Shipping Class	Corrosive Liquid n.o.s.
D.O.T. Identification	UN 1760
D.O.T. Shipping Label	Corrosive Liquid.

15. REGULATORY INFORMATION

U.S. Federal Regulatory Information:

SARA 302 Threshold Planning Quantity: N/A SARA 304 Reportable Quantity: 5000 lbs. Phosphoric acid.

SARA 311 Categories: Immediate

Acute Health Effects:	Corrosive
Chronic Health Effects:	None
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

CERCLA: Phosphoric Acid RQ is 5000 lbs. Subject to reporting requirements of CERCLA.

SARA Title III - Section 313 Supplier Notification: Phosphoric acid is subject to reporting level established by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification: See Above.

16. OTHER INFORMATION

NFPA Hazard Rating:

Health:	2	Moderate
Flammability:	0	Negligible
Reactivity:	0	Negligible

*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

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