

# MATERIAL SAFETY DATA SHEET

Revision Number A95013E 3/30/09

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Product name** YSI 2387 Buffer Concentrate

Synonyms None

Chemical characterization Mixture of inorganic phosphates and other salts

Manufacturer, importer, supplier YSI, Inc

1700/1725 Brannum Lane Yellow Springs, OH 45387

**EMERGENCY TELEPHONE NUMBER** 1- 937- 767- 7241

2. COMPOSITION / INFORMATION ON INGREDIENTS						
CAS	Chemical Name	% Weight	ACGIH TWA	IARC*	NTP*	OSHA*
7558-79-4	Sodium phosphate dibasic	85-90		N/A	N/A	N/A
7558-80-7	Sodium acid phosphate	10-15		N/A	N/A	N/A
7647-14-5	Sodium chloride	< 3.0		N/A	N/A	N/A
25102-12-9	EDTA	<1.0		N/A	N/A	N/A
56-95-1	Chlorhexidine diacetate	<1.0		N/A	N/A	N/A

<sup>\*</sup> IARC - Group 1 (Carcinogenic to humans)

### 3. HAZARDS IDENTIFICATION

### **Emergency Overview**

Dust from this product may be irritating to eyes, skin, and respiratory tissue

Eye Contact	Can cause severe irritation
Skin Contact	Exposure can cause skin irritation
Inhalation	<ul> <li>Possible irritation of nasal passages from breathing dust from this product</li> </ul>
Ingestion	<ul> <li>No effects expected from normal use and minor amounts ingested.</li> </ul>
	Can cause burns of the mouth and digestive system.
General Advice	As with any chemical, use caution when handling
	If exposure effects persist seek medical attention
<b>Principle Routes of Exposure</b>	Eyes, absorption, ingestion

4. FIRST AID MEASURES		
General Advice	If exposure symptoms persist, seek medical attention.	
Skin Contact	<ul> <li>Wash exposed areas with soap and water for 15 minutes</li> </ul>	
Eye Contact	<ul> <li>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li> </ul>	
Inhalation	Move to fresh air in case of accidental inhalation	
Ingestion	<ul> <li>Do not swallow; rinse mouth with water and afterwards drink plenty of water.</li> </ul>	
Notes to Physician	Treat symptomatically	
<b>Protection of First-Aiders</b>	<ul> <li>Use necessary personal protective equipment</li> </ul>	
Aggravated Medical Conditions	<ul> <li>Users with skin conditions (eczema, psoriasis, etc), respiratory conditions (asthma, bronchitis, emphysema, etc), or with chemical sensitivities should take protective precautions</li> </ul>	

<sup>\*</sup> NTP - Report on Carcinogens - Known Carcinogens

<sup>\*</sup> OSHA - Regulated Carcinogens

	5. FIRE-FIG	HTING MEASUR	ES		
Flash Point	• None				
Suitable Extinguishing Media	<ul> <li>Not ap</li> </ul>	plicable to this prod	uct		
Extinguishing media which must not be used for safety reasons	<ul><li>None</li></ul>				
Specific Hazards					
Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases	• Materia	al can emit phospho	rous oxides whe	en heated	
Special protective equipment for firefighters	As in any fire, wear self-contained breathing apparatus, and full protective gear				
Specific Methods					
NFPA (National Fire Protection Asso	ciation)	Health=1 (slight)	Reactivity=0	Fire=0	Special=0 (none)
HMIS (Hazardous Material Informat		Health=1 (slight)	Reactivity=0	Fire=0	Special=0 (none)
6.	ACCIDENTAL	RELEASE MEAS	SURES		
Personal precautions	<ul><li>Ensure adequate ventilation</li><li>Use necessary personal protective equipment</li></ul>				
Environmental precautions	No information available				
Methods for cleaning up		amounts of material al. Flush small amou			neld for proper
			<u>g</u>		
	7. HANDLII	NG AND STORAC	SE .		
<u>Handling</u>					
<b>Technical Measures / Precautions</b>	Avoid contact with skin, eyes, and clothing				
Cofe Handling Advise	307 1 1		C		

Technical Measures / Precautions	<ul> <li>Avoid contact with skin, eyes, and clothing</li> </ul>	
Safe Handling Advice	Wash hands immediately after contact to avoid hand-eye transfer	
	Wear personal protective equipment	
<u>Storage</u>		

<del></del>		
Technical Measures / Precautions	utions • Store in properly labeled containers	
	<ul> <li>Keep containers tightly closed. Discard any material that may be</li> </ul>	
	contaminated or, which may have changed composition.	
Incompatible Products	Avoid strong acids, oxidizing agents	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
Engineering measures	<ul> <li>Ensure adequate ventilation, especially in confined areas</li> <li>Ensure eyewash station is readily available</li> </ul>	

# Personal protective equipment

Hand Protection	<ul> <li>Wear the appropriate protective gloves</li> </ul>
Eye protection	<ul> <li>Wear tightly fitting safety goggles or safety glasses with side-shields</li> </ul>
J .	Face-shield
Respiratory Protection	<ul> <li>Ensure adequate ventilation is a available before handling any chemical</li> </ul>
	<ul> <li>In case of insufficient ventilation, wear suitable respiratory equipment</li> </ul>
Skin and Body Protection	Long sleeved clothing
	<ul> <li>Boots</li> </ul>
	<ul> <li>apron</li> </ul>
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
	<ul> <li>Keep away from food, drink, and animal feeding stuffs</li> </ul>

Environmental exposure controls	No information available
---------------------------------	--------------------------

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Form Solid

**Appearance** White powder

**Odor** mild

## **Important Health Safety and Environmental Information**

**pH** 6.5 to 7.5

**Boiling Point / Range**No information available **Flash Point**No information available

Vapor PressureNot applicableVapor DensityNot applicableWater SolubilitySoluble

Specific Gravity No information available

Melting Point / Range >500°F (260°C)

Stability

Stable under normal conditions

Materials to Avoid

• Strong acids and oxidizing agents

Hazardous Decomposition Products

• Thermal decomposition can lead to release of irritating gases and vapors

Polymerization

• Polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### **Local Effects**

Skin Irritation	May cause skin irritation
Eye Irritation	Can cause severe irritation
Inhalation	May cause irritation in nasal passages
Ingestion	No effects expected from normal use. Ingestion of this product may cause
	digestive system upset
Sensitization	No information available
Chronic Toxicity	No information available

### **Specific Effects**

Carcinogenic Effects	No information available
Mutagenic Effects	No information available
Reproductive Toxicity	No information available
Target Organ Effects	No information available

## 12. ECOLOGICAL INFORMATION

## **Product Information**

Aquatic Toxicity	No information available.
Aquatic Toxicity	i no information available.

## **Other Information**

Ozone Depletion Potential; ODP; (R-11=1)	No information available.
Global Warming Potential (GWP)	No information available.
Additional Ecological Information	No information available
Mobility	No information available.
Bioaccumulative Potential	No information available.
<b>Ecotoxicity Effects</b>	No information available
Aquatic Toxicity	No information available.

13. DISPOSAL CONSIDERATIONS					
Waste From Residues / Unused Products	Dispose of in accordance with local regulations				
Contaminated Packaging	Empty containers should be rinsed and disposed of as appropriate for glass and plastic containers				

## 14. TRANSPORT INFORMATION

DOT **UN-No**  Not regulated

Proper shipping name

## 15. REGULATORY INFORMATION

## **U.S. Inventories**

CAS	Chemical Name	% Weight	ACGIH*
7558-79-4	Sodium phosphate dibasic	85-90	N/A
7558-80-7	Sodium acid phosphate	10-15	N/A
7647-14-5	Sodium chloride	<3.0	N/A
25102-12-9	EDTA	<1.0	N/A
56-95-1	Chlorhexidine diacetate	<1.0	N/A

<sup>\*</sup> ACGIH - Occupational Exposure Limits - TWA's

## **International Inventories**

CAS	Chemical Name	% Weight	EUOED*
7558-79-4	Sodium phosphate dibasic	85-90	N/A
7558-80-7	Sodium acid phosphate	10-15	N/A
7647-14-5	Sodium chloride	<3.0	N/A
25102-12-9	EDTA	<1.0	N/A
56-95-1	Chlorhexidine diacetate	<1.0	N/A

<sup>\*</sup> EUOED - EU Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV)

## **16. OTHER INFORMATION**

**Literary Reference Prepared By** 

None. YSI, Inc.

End of Safety Data Sheet.