

# MATERIAL SAFETY DATA SHEET

Revision Number A08589D 3/30/12

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

**Product name** YSI 8591 Bicarbonate Buffer

SynonymsNoneChemical characterizationMixtureManufacturer, importer, supplierYSI, 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*						
7647-14-5	Sodium chloride	91-92	None	N/A	N/A	N/A
144-55-8	Sodium bicarbonate	8-9		N/A	N/A	N/A

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

## 3. HAZARDS IDENTIFICATION

## **Emergency Overview**

This product contains no substances which at their given concentration, are considered to be hazardous to health.

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Eye Contact	May cause severe irritation		
Skin Contact	Exposure may cause skin irritation		
Inhalation	Inhalation of dust may cause mild irritation of respiratory tract		
Ingestion	<ul> <li>Ingestion of a large amount may cause digestive system upset.</li> </ul>		
General Advice	As with any chemical, use caution when handling		
	If exposure effects persist seek medical attention		
Principle Routes of Exposure	Eyes, absorption, ingestion		

4. FIRST AID MEASURES			
General Advice	If exposure symptoms persist, seek medical attention.		
Skin Contact	Wash exposed areas with soap and water for 15 minutes		
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any		
	contact lenses and continue flushing for at least 15 minutes		
Inhalation	Move to fresh air in case of accidental inhalation		
Ingestion	<ul> <li>For ingestion of large amounts induce vomiting if person is conscious. If conditions persist, seek medical attention.</li> </ul>		
Notes to Physician	Treat symptomatically		
Protection of First-Aiders	Use necessary personal protective equipment		
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>		

5. FIRE-FIGHTING MEASURES		
Flash Point	None	
Suitable Extinguishing Media	Not applicable to this product	
Extinguishing media which must	None	

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

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

#### not be used for safety reasons **Specific Hazards** Special exposure hazards rising None from the substance or preparation itself, its combustion products, or released gases Special protective equipment for None firefighters As in any fire, wear self-contained breathing apparatus, and full protective gear **Specific Methods** NFPA (National Fire Protection Association) Health=1 (slight) Reactivity=0 | Fire=0 Special=0 (none) **HMIS (Hazardous Material Information System)** Health=1 (slight) Reactivity=0 Fire=0 Special=0 (none) 6. ACCIDENTAL RELEASE MEASURES **Personal precautions** Ensure adequate ventilation Use necessary personal protective equipment No information available **Environmental precautions** Methods for cleaning up In case of spill or leak, flush to sewer or ground with lots of water. 7. HANDLING AND STORAGE Avoid contact with skin, eyes, and clothing **Technical Measures / Precautions** Take necessary personal protective precautions before using this product. Safe Handling Advice Wash hands immediately after contact to avoid hand-eye transfer **Storage Technical Measures / Precautions** Store in properly labeled containers Keep containers tightly closed. Discard any material that may be contaminated or, which may have changed composition. Avoid strong acids, oxidizing agents. **Incompatible Products** 8. EXPOSURE CONTROLS / PERSONAL PROTECTION **Engineering measures** Ensure adequate ventilation, especially in confined areas Ensure eyewash station is readily available Personal protective equipment **Hand Protection** Wear the appropriate protective gloves Wear tightly fitting safety goggles or safety glasses with side-shields Eye protection Face-shield Ensure adequate ventilation is a available before handling any **Respiratory Protection** chemical In case of insufficient ventilation, wear suitable respiratory equipment **Skin and Body Protection** Long sleeved clothing **Boots** apron

**Environmental exposure controls** 

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

Keep away from food, drink, and animal feeding stuffs

No information available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **General Information**

Form Solid

**Appearance** White powder

**Odor** None

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

**pH** neutral

Boiling Point / Range No information

Flash Point None

Water Solubility Infinitely soluble

10. STABILITY AND REACTIVITY			
Stability	Stable under normal conditions		
Materials to Avoid	Strong acids and oxidizing agents		
<b>Hazardous Decomposition Products</b>	None		
Polymerization	Polymerization does not occur		

#### 11. TOXICOLOGICAL INFORMATION

#### **Local Effects**

Skin Irritation	May cause skin irritation in susceptible persons.	
Eye Irritation	Dust may cause severe irritation	
Inhalation	May cause irritation in nasal passages	
Ingestion	<ul> <li>Ingestion of this product may cause digestive system upset</li> </ul>	
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

## **Ecotoxicity Effects**

#### **Product Information**

Aquatic Toxicity	No information available.	
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## **Other Information**

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

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** Not regulated

## 15. REGULATORY INFORMATION

## **U.S. Inventories**

CAS	Chemical Name	% Weight	ACGIH TWA
7647-14-5	Sodium chloride	91-92	None
144-55-8	Sodium bicarbonate	8-9	

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

## **International Inventories**

CAS	Chemical Name	% Weight	EUOED - EU
7647-14-5	Sodium chloride	91-92	None
144-55-8	Sodium bicarbonate	8-9	

<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.