



Issuing Date 05/2710

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** TBS Buffer, 20X Powder

**Product Code(s)** 0788

**Distributor**  
 AMRESO INC.  
 6681 Cochran Road  
 SOLON, OHIO 44139

**Company Phone Number** 1-800-829-2805  
**Emergency Telephone Number** Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

**Emergency Overview**

**Appearance** White      **Physical State** Crystalline, Powder      **Odor** No information available

**Potential Health Effects**

**Acute Toxicity**

**Eyes** Irritating to eyes.  
**Skin** Irritating to skin.  
**Inhalation** Irritating to respiratory system.  
**Ingestion** Causes irritation by ingestion.

**Chronic Effects** No known effect based on information supplied.

**Aggravated Medical Conditions** None known.

**Environmental Hazard** See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium Chloride	7647-14-5	60-70
Trometamol	77-86-1	0-5
Tris hydrochloride	1185-53-1	25-30
Potassium chloride	7447-40-7	0-5

4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash skin with soap and water.

**Inhalation** Move to fresh air. If breathing becomes difficult, give oxygen.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties** Not flammable.

**Flash Point** Not determined

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

**Hazardous Combustion Products** Nitrogen oxides (NOx), Carbon oxides

**Explosion Data**

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** Not sensitive.

**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.

**NFPA**                      **Health Hazard -**                      **Flammability -**                      **Stability -**                      **Physical and Chemical Hazards -**

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. Protect from moisture.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic. Protect from moisture.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Chloride 7647-14-5			
Trometamol 77-86-1			
Tris hydrochloride 1185-53-1			
Potassium chloride 7447-40-7			

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Personal Protective Equipment****Eye/Face Protection**

Tightly fitting safety goggles.

**Skin and Body Protection**

Wear protective gloves/clothing.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White	<b>Odor</b>	No information available
<b>Physical State</b>	Crystalline, Powder		
<b>Flash Point</b>	No information available	<b>Autoignition Temperature</b>	No information available
<b>Boiling Point/Range</b>	No information available	<b>Flammability Limits in Air</b>	No information available
<b>Explosion Limits</b>	No information available		
<b>Solubility</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Vapor Density</b>	No information available.		

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Strong oxidizing agents.

**Conditions to Avoid** Protect from moisture.

**Hazardous Decomposition Products** Carbon oxides. Nitrogen oxides (NOx).

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

**Product Information** Irritating to eye, skin and respiratory system.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trometamol	5900 mg/kg ( Rat )		

**Chronic Toxicity**

**Target Organ Effects** Heart

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations.

Chemical Name
Sodium Chloride - 7647-14-5
Trometamol - 77-86-1
Tris hydrochloride - 1185-53-1
Potassium chloride - 7447-40-7

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - U Series Wastes
Sodium Chloride - 7647-14-5					
Trometamol - 77-86-1					
Tris hydrochloride - 1185-53-1					
Potassium chloride - 7447-40-7					

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Does not Comply
<b>DSL</b>	Does not Comply
<b>EINECS/ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>IECSC</b>	Does not Comply
<b>KECL</b>	Does not Comply
<b>PICCS</b>	Does not Comply
<b>AICS</b>	Does not Comply

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico - Grade** No information available.

**Canada**

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

**Issuing Date** 05/2710

**Revision Date**

**Revision Note** No information available.

**Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**