



Issuing Date 07/17/09

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Phosphate Buffered Saline 20X Liquid Concentrate

**Product Code(s)** E703

**Distributor**  
AMRESKO INC.  
6681 Cochran Road  
OLON, OHIO 44139

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

2. HAZARDS IDENTIFICATION

**Emergency Overview**

**Appearance** Clear, haze-free      **Physical State** Liquid      **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 USP	7647-14-5	15-20
Sodium phosphate	7558-80-7	1-4

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** 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** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

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

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

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Sodium chloride USP 7647-14-5			
Sodium phosphate 7558-80-7			

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

**Personal Protective Equipment**

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**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>	Clear haze-free	<b>Odor</b>	No information available
<b>Physical State</b>	Liquid		
<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** Acids. Bases. Oxidizing agents. Soluble carbonates and phosphates. Oxides. Hydroxides. Sulfur. Acid anhydrides. Peroxides. Permanganates. Amines. Alcohols.

**Conditions to Avoid** None known based on information supplied.

**Hazardous Decomposition Products** Carbon oxides.

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

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Product Information** Causes skin, eye and respiratory tract irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride USP		10 g/kg ( Rabbit )	42 g/m <sup>3</sup> ( Rat ) 1 h
Sodium phosphate	8290 mg/kg ( Rat )	7940 mg/kg ( Rabbit )	

**Chronic Toxicity**

**Target Organ Effects** None known.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium chloride USP		LC50= 12946 mg/L Lepomis macrochirus 96 h LC50= 7650 mg/L Pimephales promelas 96 h LC50= 9675 mg/L Lepomis macrochirus 96 h		EC50 = 1000 mg/L 48 h

**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 USP - 7647-14-5
Sodium phosphate - 7558-80-7

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - U Series Wastes
Sodium chloride USP - 7647-14-5					
Sodium phosphate - 7558-80-7					

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**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**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

**Issuing Date** 07/17/09

**Revision Date**

**Revision Note** No information available.

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**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**