


**MATERIAL SAFETY DATA SHEET**

5100 W. Henrietta Rd.  
West Henrietta, NY 14586  
TEL: (866) 260-0501

MSDS No. 9796000  
APC950-3  
Effective Date: May 17, 2007

**SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE**

Product	Sodium Hypochlorite, 0.5M Solution	<b>CHEMTREC</b> 1-800-424-9300   <b>NFPA</b>  <b>HAZARD RATING</b> Minimal Slight Moderate Serious Severe 0 1 2 3 4  <b>WHMIS</b>	Health	3
Chemical Synonyms	N/A		Flammability	0
Formula	Mixture.		Reactivity	1
CAS No.	Mixture.			

**SECTION II DANGEROUS INGREDIENTS**

Name	%	TLV Units
Sodium hypochlorite: (CAS #: 7681-52-9)	3.25%	N/A
Sodium carbonate: (CAS #: 497-19-8)	0.11%	N/A
Water: (CAS #: 7732-18-5)	96.5%	N/A
<b>DANGER! CORROSIVE!</b>		

**SECTION III PHYSICAL DATA**

Melting Point (°C)	0°C	Specific Gravity (H <sub>2</sub> O = 1)	1.27 @ 20°C
Boiling Point (°C)	100°C	Percent Volatile by Volume (%)	Decomposes.
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	> 1
Vapor Density (Air=1)	2.58 (chlorine)		
Solubility in Water	Complete.		
Appearance & Odor	Clear liquid; odor of hypochlorites.		

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO <sub>2</sub> , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

(2004 EMERGENCY RESPONSE GUIDEBOOK (ERG2004), RSPA P 5800.9, GUIDE PAGE # 154)

Flammability and Explosion Hazards	<p>When heated, emits toxic fumes of chlorine. Contact with hydrochloric acid liberates chlorine gas.</p>
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TDG	Class 8 Corrosive liquid. UN1791
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

**SECTION V REACTIVITY DATA** SS0605

Chemical Stability	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	If no, under what conditions?
Incompatible with Other products	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Acids, oxidizable materials, ammonia and/or metals.
Hazardous Decomposition Products	Thermal decomposition may produce hydrogen chloride gas.		
Reactive under what conditions	Chlorine given off on contact with acids.		

**SECTION VI TOXICOLOGICAL PROPERTIES**

Route of Entry	Ingestion. Inhalation. Skin contact. Eyes.
TLV	N/A
Toxicity for animals	N/A
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Eyes, skin, respiratory system.
Acute effects on humans	Harmful if inhaled or swallowed. Causes skin and eye irritation. May cause burns.

**SECTION VII PREVENTIVE MEASURES**

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep in a cool, well ventilated place. Keep container tightly closed. Protect from direct sunlight.
Precautions	Avoid contact with skin and eyes. DO NOT inhale vapor or spray. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.

**SECTION VIII FIRST AID MEASURES**

Specific first aid measures	<p>Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.</p>
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**SECTION IX PREPARATION OF THE MSDS**


Rev. No.	5	Date	May 17, 2007	Approved	James A. Bertsch
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**MATERIAL SAFETY DATA SHEET**

5100 W. Henrietta Rd.  
West Henrietta, NY 14586  
TEL: (866) 260-0501

9796000  
MSDS No. APC950-3  
Effective Date: February 19, 2007

**SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE**

Product	Sodium Thiosulfate, 0.5 Molar (0.5N) Solution	416-984-3000		Health	0
Chemical Synonyms	Sodium Hyposulfate, Water Solution			Flammability	0
Formula	Mixture.	HAZARD RATING		Reactivity	0
CAS No.	Mixture.	Minimal	Slight	Moderate	Severe
		0	1	2	3
					4

**SECTION II DANGEROUS INGREDIENTS**

Name	%	TLV Units
Sodium thiosulfate: CAS # 7772-98-7	7.9%	N/A
Water: CAS # 7732-18-5	92.1%	N/A

**CAUTION!**

**SECTION III PHYSICAL DATA**

Melting Point (°C)	Freezes @ ~ 0°C	Specific Gravity (H <sub>2</sub> O = 1)	~ 1.0
Boiling Point (°C)	~ 100°C	Percent Volatile by Volume (%)	92.1%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (=1)	> 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear liquid; no odor.		

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	<p>Use dry chemical, CO<sub>2</sub>, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.</p>				

**Flammability and Explosion Hazards**

In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

<b>TDG</b>	Not controlled under TDG.
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**SECTION V REACTIVITY DATA** SS0898

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Oxidizers, acids.
	No		
Hazardous Decomposition Products	Sulfur dioxide gas, sodium sulfide.		
Reactive under what conditions	High temperature (> 100°C) yields sulfur dioxide gas and hazardous residue.		

**SECTION VI TOXICOLOGICAL PROPERTIES**

Route of Entry	Ingestion. Inhalation.
TLV	N/A
Toxicity for animals	N/A
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: None known.
Acute effects on humans	May be harmful if swallowed. May cause eye irritation, skin irritation.

**SECTION VII PREVENTIVE MEASURES**

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep in a cool, well ventilated place. Keep container tightly closed. Keep away from incompatible materials.
Precautions	Avoid contact with skin and eyes. Do not inhale vapor or spray. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.
Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.

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