


**MATERIAL SAFETY DATA SHEET**

<b>SECTION 1 – PRODUCT IDENTIFICATION AND USE</b>					
PRODUCT IDENTIFIER <b>Sodium Chlorate Solution (20-50%)</b>			CAS REGISTRY NO. <b>7775099</b>		
PRODUCT USE <b>Production of Chlorine dioxide for bleaching pulp. Herbicide.</b>					
MANUFACTURER'S NAME <b>Chemtrade Pulp Chemicals LP</b>			SUPPLIER'S NAME <b>Chemtrade Pulp Chemicals LP</b>		
STREET ADDRESS <b>2711 Pulpmill Road</b>			STREET ADDRESS <b>2711 Pulpmill Road</b>		
CITY <b>Prince George</b>	PROVINCE <b>BC</b>		CITY <b>Prince George</b>	PROVINCE <b>BC</b>	
POSTAL CODE <b>V2N 2S6</b>	EMERGENCY TELEPHONE NO. <b>(250) 563-4206 or CANUTEC (613) 996-6666</b>		POSTAL CODE <b>V2N 2S6</b>	EMERGENCY TELEPHONE NO. <b>(250) 563-4206 or CANUTEC (613) 996-6666</b>	
<b>SECTION 2- HAZARDOUS INGREDIENTS</b>					
HAZARDOUS INGREDIENTS	gpl	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFIC SPECIES)	
Sodium chlorate	620 - 680	7775-09-9	1200 mg/Kg (rat-oral)	Not available	
Sodium chloride	< 20	7647-14-5	3000 mg/Kg (rat-oral)	Not available	
<b>SECTION 3 – PHYSICAL DATA</b>					
PHYSICAL STATE <b>Liquid</b>	ODOUR AND APPEARANCE <b>Colorless, yellow or green solution, odorless</b>			ODOUR THRESHOLD (PPM) <b>Not available</b>	
SPECIFIC GRAVITY <b>1.375 – 1.425</b>	VAPOUR DENSITY (AIR = 1) <b>Not available</b>		VAPOUR PRESSURE (mm Hg) <b>Not available</b>	EVAPORATION RATE <b>Not available</b>	
BOILING POINT (°C) <b>Not available</b>	FREEZING POINT (°C) <b>Not available</b>		pH <b>7 - 9</b>	COEFF. OF WATER/OIL DIST. <b>Not available</b>	<b>Not Volatile</b>
<b>SECTION 4 – FIRE AND EXPLOSION HAZARD</b>					
FLAMMABILITY YES [ X ] NO [ ]	IF YES, UNDER WHAT CONDITIONS?	If allowed to dry and exposed to shock conditions, explosive decomposition may occur.			
MEANS OF EXTINCTION	Sodium chlorate is not flammable but may ignite combustibles. Flood with water. Do not use fire blanket. Do not use CO <sub>2</sub> foam or dry chemical extinguishers.				
FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)		LOWER FLAMMABLE LIMIT (% BY VOLUME)		
<b>Not available</b>	<b>Not available</b>		<b>Not available</b>		
AUTOIGNATION TEMPERATURE (°C)			HAZARDOUS COMBUSTION PRODUCTS		
<b>Not available</b>			<b>Sodium perchlorate, Hydrogen chloride, Sodium oxide</b>		
SENSITIVITY TO IMPACT <b>Not available</b>			SENSITIVITY TO STATIC DISCHARGE <b>Not available</b>		



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<b>SECTION 5 – REACTIVITY DATA</b>			
CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		IF NO, UNDER WHAT CONDITIONS?	
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		IF YES, WHICH ONES? Combustible and flammable materials, phosphorus, sulfur compounds, ammonium and metal salts, acids, metals and metal oxides.	
CONDITIONS OF REACTIVITY Dry Sodium chlorate and concentrated solutions are strong oxidizers. Contact with incompatibles may cause fire and explosion.		HAZARDOUS DECOMPOSITION PRODUCTS Chlorides, Sodium oxides	
<b>SECTION 6 – TOXICOLOGICAL PROPERTIES</b>			
ROUTES OF ENTRY SKIN CONTACT		ROUTES OF ENTRY SKIN ABSORPTION	
[X] [ ]		[X] [X]	
[X] [X]		[X] [X]	
EFFECTS OF ACUTE EXPOSURE SKIN / EYE CONTACT : Irritation		EFFECTS OF ACUTE EXPOSURE INHALATION : Respiratory tract irritation	
EFFECTS OF ACUTE EXPOSURE INGESTION : Diarrhea, vomiting, abdominal pain, intestinal bleeding, hemolysis and death.			
EFFECTS OF CRONIC EXPOSURE Dermatitis. Repeated exposure by inhalation or ingestion may cause toxic effects.			
EXPOSURE LIMITS Not established	IRRITANCY OF PRODUCT May cause irritation	SENSITIVITY TO PRODUCT Not established	CARCINOGENICITY Does not meet criteria
TERATOGENICITY Not established	REPRODUCTIVE TOXICITY Not established	MUTAGENICITY Does not meet criteria	SYNERGISTIC PRODUCTS Not available



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**SECTION 7 – PREVENTENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT		
GLOVES (SPECIFY)  Rubber gloves	RESPIRATOR (SPECIFY) As necessary. Wear SCBA when fire fighting.	EYE(SPECIFY)  Chemical safety goggles
FOOTWEAR (SPECIFY)  Rubber boots	CLOTHING (SPECIFY)  Rubber apron, coveralls	OTHER (SPECIFY) Cloth and leather clothing may be dangerously flammable if contaminated.
ENGINEERING CONTROLS (SPECIFY) VENTING: Mechanical ventilation, local exhaust ventilation, exhaust directly to outside. Do not use organic or combustible materials such as wood in construction of ventilation or control systems.		
LEAK AND SPILL PROCEDURE Eliminate all ignition sources. Do not touch spilled material. Stop leak if it can be done without risk. Small spills – take up with sand, or other non-burnable materials and then flush area with water. Large spills – Dike for later disposal.		
WASTE DISPOSAL Review federal, provincial and local government requirements prior to disposal. Disposal by secure landfill may be acceptable.		
HANDLING PROCEDURES AND EQUIPMENT Keep material away from ignition sources. Avoid generating mist. Use smallest possible amount in designated areas with adequate ventilation. Have emergency equipment readily available. Keep containers closed when not in use. Empty containers may contain hazardous residues.		
STORAGE REQUIREMENTS Do not store on wooden floors. Store in cool, dry, well ventilated area, out of direct sunlight.		
SPECIAL SHIPPING INFORMATION Transport subject to the provisions of the TDG act and Regulations.		

**SECTION 8 – FIRST AID MEASURES**

SPECIFIC MEASURES	
EYE CONTACT:	Flush eyes with plenty of low pressure running water for at least 20 minutes. Seek medical attention if irritation persists.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with plenty of water. Seek medical attention if irritation persists.
INGESTION:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Have victim drink 8 to 10 oz. Of water. Get immediate medical attention.
INHALATION:	Remove victim to fresh air or remove source of contamination. If symptoms persist, obtain immediate medical attention.

**SECTION 9 – PREPARATION INFORMATION**

DATE PREPARED September 9, 1999	LAST REVISED May 16, 2008	PREPARED BY S. Bluskov	PHONE NUMBER (250) 565 - 8700
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**CHEMTRADE**  
**LOGISTICS**

**PULP CHEMICALS DIVISION**

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