

MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT Chloride Reagent, Part B		CHEMICAL FAMILY inorganic oxidizing agent							
	PRODUCT NUMBER A1100180		FORMULA NaBrO ₃							
	MANUFACTURER'S NAME AND ADDRESS IC CONTROLS™		PRODUCT USE Analyzer reagent							
	29 Centennial Rd.		EMERGENCY TELEPHONE NO. IC Controls:(519)941-8161							
	Orangeville, Ont. L9W 1R1		Poison Info Centre: 1 800 268-9017							
	CONTAINER SIZE AND TYPE brown glass bottle		USE AS RECEIVED	mix						
HAZARDOUS INGREDIENTS	SHIPPING NAME Sodium Bromate		CLASS	5.1						
	PIN 1494	WHMIS Classification Class C — oxidizing material	PACKING GROUP	II						
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.				
	1 > 90	Sodium Bromate		N.A.	140 ppm	7789-38-0				
					(ipr-mus)					
PHYSICAL DATA	FREEZING POINT		381 (decomposes) °C	MELTING POINT		°C	BOILING POINT		No Data °C	
	VAPOUR PRESSURE		No Data	VAPOUR DENSITY (AIR = 1)		No Data	SPECIFIC GRAVITY (H ₂ O = 1)		3.34	
	COEFFICIENT OF WATER/OIL DISTRIBUTION		No Data	EVAPORATION RATE		No Data	pH AT 25 °C		neutral	
	ODOUR THRESHOLD		No Data	PHYSICAL STATE		GAS	LIQUID	PASTE	SOLID X	POWDER
	ODOUR AND APPEARANCE		Colourless crystals, white granules, or crystalline powder. Odourless.							
	FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION		Not applicable		FLAMMABLE LIMITS		L.E.L.	N. A.	
CONDITIONS OF FLAMMABILITY		Noncombustible. Dangerous fire hazard near organic materials.								
MEANS OF EXTINCTION		Water spray.								
HAZARDOUS COMBUSTION PRODUCTS		Na ₂ O, Br ₂								
		AUTO IGNITION TEMP.		°C						
EXPLOSION DATA		SENSITIVITY TO MECHANICAL IMPACT		When mixed with organics or powdered metals.						
		SENSITIVITY TO STATIC DISCHARGE		none						
SPECIAL FIRE FIGHTING PROCEDURES		Self-contained breathing apparatus should be worn.								

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REACTIVITY	STABLE	YES	CONDITIONS TO AVOID			PRODUCT NUMBER
	UNSTABLE					A1100180
	INCOMPATIBILITY—MATERIALS TO AVOID Organics, reducing agents, powdered metals, hydrides, Al, As, C, Cu, oil, F₂, grease, P, S.					
	HAZARDOUS DECOMPOSITION PRODUCTS Bromine, bromide.					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
			YES	YES	irritant	
	EFFECTS OF EXPOSURE (ACUTE) Can irritate eyes, skin, mucous membranes, and upper respiratory tract.					
	EFFECTS OF EXPOSURE (CHRONIC) Ingestion may cause vomiting, diarrhea, methemoglobinemia, liver and kidney damage and nasal ulcers. may also form.					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT No information available.					
	CARCINOGENICITY No information available.					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	Eyes: irrigate with water immediately, frequently lifting eyelids. Flush for at least 15 minutes.					
Skin: wash with plenty of water.						
Ingestion: Never give anything if victim is rapidly losing consciousness, is unconscious, or is convulsing. Rinse mouth thoroughly with water. If victim is conscious, induce vomiting. Have victim drink 200-400 mL of water or milk to dilute. Give artificial respiration if necessary.						
Consult physician for all forms of serious exposure.						
PREVENTIVE MEASURES	RESPIRATORY PROTECTION Dust mask may be used.					
	VENTILATION	LOCAL EXHAUST recommended			SPECIAL Not Applicable	
		MECHANICAL (GENERAL) No			OTHER No	
	HAND PROTECTION impervious gloves			EYE PROTECTION safety goggles		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Shut off possible sources of ignition. Transfer into container. Wash site of spillage with water and detergent.					
	WASTE DISPOSAL METHOD Follow all federal, provincial, and local regulations where applicable. Oxidizing agents may require removal by disposal company.					
	HANDLING PROCEDURES AND EQUIPMENT Avoid generating dust. Follow standard safety procedures.					
	STORAGE REQUIREMENTS Keep container sealed. Store in cool area away from direct sunlight and incompatible materials.					
	SPECIAL SHIPPING INFORMATION					
	PREPARATION	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker		
TITLE		TITLE		TELEPHONE		
		Chemistry Manager		(519) 941-8161		
		<i>Peter Bakker</i>		DATE		
				November 5, 2009		
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