

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT <b>Chlorine Standard A</b>		CHEMICAL FAMILY <b>inorganic solution</b>			
	PRODUCT NUMBER <b>Orion 177014</b>		FORMULA <b>KIO<sub>3</sub></b>			
	MANUFACTURER'S NAME AND ADDRESS <b>Thermo Fisher</b>		PRODUCT USE			
	166 Cummings Center		EMERGENCY TELEPHONE NO. <b>1-800-424-9300</b>			
	Beverly, MA 01915					
	CONTAINER SIZE AND TYPE		USE AS RECEIVED			
SHIPPING NAME		CLASS				
PIN	WHMIS Classification <b>Not Controlled—not hazardous</b>		PACKING GROUP			
HAZARDOUS INGREDIENTS	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD <sub>50</sub> mg/kg	LC <sub>50</sub> **	CAS REGISTRY NO.
	1	0.002	Potassium Iodate			7758-15-6
			LO 531 mg/kg orl = mia			
			WHMIS CLASSIFICATION:			
			The hazardous ingredients concentration of this product is far less than 0.1 %. The product is sufficiently diluted so as not to pose a health hazard and is therefore not controlled by WHMIS.			
			"Inherently not poisonous, flammable, etc." or <b>NC</b>			
			* (1) % W/W (2) % V/V (3) % g/L ** SPECIES AND ROUTE			
PHYSICAL DATA	FREEZING POINT	0 °C	MELTING POINT	N. Avail. °C	BOILING POINT	100 °C
	VAPOUR PRESSURE	N. Avail.	VAPOUR DENSITY (AIR = 1)	N. Avail.	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1
	COEFFICIENT OF WATER/OIL DISTRIBUTION	Not Appl.	EVAPORATION RATE	Not Avail.	pH AT 25 °C	6-8
	ODOUR THRESHOLD	Not Avail.	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER <b>X</b>		
	ODOUR AND APPEARANCE <b>Clear colourless solution, odourless.</b>					
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION <b>Not combustible.</b>		FLAMMABLE LIMITS		L.E.L. <b>N. A.</b>	U.E.L. <b>N. A.</b>
	CONDITIONS OF FLAMMABILITY					
	MEANS OF EXTINCTION <b>any</b>					
	HAZARDOUS COMBUSTION PRODUCTS					
					AUTO IGNITION TEMP.	°C
	EXPLOSION DATA	SENSITIVITY TO MECHANICAL IMPACT <b>none</b>				
		SENSITIVITY TO STATIC DISCHARGE <b>none</b>				
	SPECIAL FIRE FIGHTING PROCEDURES					

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REACTIVITY	STABLE	YES	CONDITIONS TO AVOID		PRODUCT NUMBER	Orion 177014 Chlorine Std. A
	UNSTABLE					
	INCOMPATIBILITY—MATERIALS TO AVOID <b>Al, As, C, Cu, metal sulfides, organic matter</b>					
	HAZARDOUS DECOMPOSITION PRODUCTS					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
		NO	NO	YES	NO	
	EFFECTS OF EXPOSURE (ACUTE) <b>Dilute solution is not considered to be a hazard.</b>					
	EFFECTS OF EXPOSURE (CHRONIC)					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
	<b>Eyes: irrigate with water while lifting eyelids.</b>					
<b>Skin: wash with water and soap.</b>						
<b>Ingestion: drink large amounts of water or milk.</b>						
PREVENTIVE MEASURES	RESPIRATORY PROTECTION					
	VENTILATION	LOCAL EXHAUST <b>Not Applicable</b>		SPECIAL <b>Not Applicable</b>		
		MECHANICAL (GENERAL) <b>Not Applicable</b>		OTHER <b>Not Applicable</b>		
	HAND PROTECTION			EYE PROTECTION <b>splash-proof safety goggles</b>		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL <b>Wash down drain with excess water.</b>					
	WASTE DISPOSAL METHOD <b>as above</b>					
	HANDLING PROCEDURES AND EQUIPMENT <b>Emergency eyewash should be available.</b>					
	STORAGE REQUIREMENTS <b>Keep container sealed to protect product quality.</b>					
SPECIAL SHIPPING INFORMATION						
PREPARATION	PREPARED BY <b>Peter Bakker</b>		APPROVED BY <b>Peter Bakker</b>			
	TITLE <b>Chemistry Manager</b>		TITLE <i>Peter Bakker</i>		TELEPHONE <b>(519) 941-8161</b>	
			DATE <i>Peter Bakker</i>		DATE <b>November 5, 2009</b>	
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