

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT <b>Potassium Iodide</b>		CHEMICAL FAMILY <b>inorganic salt</b>				
	PRODUCT NUMBER <b>Orion 177012</b>		FORMULA <b>KI</b>				
	MANUFACTURER'S NAME AND ADDRESS <b>Thermo Fisher</b>		PRODUCT USE <b>Analyzer reagent</b>				
	166 Cummings Center		EMERGENCY TELEPHONE NO. <b>1-800-424-9300</b>				
	Beverly, MA 01915						
	CONTAINER SIZE AND TYPE <b>120 mL plastic bottle</b>		USE AS RECEIVED		YES		
HAZARDOUS INGREDIENTS	SHIPPING NAME <b>Chemicals, N.O.S. (NON-REGULATED)</b>		CLASS				
	PIN	WHMIS Classification <b>D2 Other toxic</b>		PACKING GROUP			
	CONCENTRATION*	HAZARDOUS	INGREDIENTS	CHEMICAL NAMES	LD <sub>50</sub> mg/kg	LC <sub>50</sub> **	CAS REGISTRY NO.
	1	100	KI		285 mg/kg		7681-11-0
					(inv, rat)		
PHYSICAL DATA	FREEZING POINT	681 °C	MELTING POINT	NA °C	BOILING POINT	1420 °C	
	VAPOUR PRESSURE	1 mm Hg @ 745 °C	VAPOUR DENSITY (AIR = 1)	2.1	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	3.13	
	COEFFICIENT OF WATER/OIL DISTRIBUTION	No Data	EVAPORATION RATE	NA	pH AT 25 °C	6-9 (5%)	
	ODOUR THRESHOLD	No Data	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER <b>X</b>			
	ODOUR AND APPEARANCE <b>white odorless crystals or granules</b>						
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION <b>not applicable</b>		FLAMMABLE LIMITS		L.E.L.	U.E.L.	
	CONDITIONS OF FLAMMABILITY <b>none</b>						
	MEANS OF EXTINCTION <b>Use an extinguisher appropriate to the surrounding material which is burning</b>						
	HAZARDOUS COMBUSTION PRODUCTS <b>none</b>						
					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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<b>REACTIVITY</b>	STABLE	YES	CONDITIONS TO AVOID			PRODUCT NUMBER Orion 177012
	UNSTABLE					
	INCOMPATIBILITY—MATERIALS TO AVOID <b>Inter-halogen compounds, oxidizers. May form explosive products with diazonium salt acids.</b>					
	HAZARDOUS DECOMPOSITION PRODUCTS <b>Toxic fumes of iodine compounds</b>					
CONDITIONS OF REACTIVITY						
<b>HEALTH HAZARD DATA</b>	HAZARDOUS ROUTES OF ENTRY	INHALATION YES	INGESTION YES	EYE CONTACT YES	SKIN CONTACT YES	SKIN ABSORPTION
	EFFECTS OF EXPOSURE (ACUTE) <b>Inhalation: irritation of eyes, nose and throat, coughing.</b>					
	<b>Skin and eye contact: Irritation or discomfort of contacted areas.</b>					
	EFFECTS OF EXPOSURE (CHRONIC) <b>Ingestion: ingestion of large quantities may lead to mental depression, nervousness, insomnia.</b>					
	<b>May also cause allergic respiratory and skin reactions.</b>					
	EXPOSURE LIMITS <b>Not established</b>					
	SENSITIZATION TO PRODUCT <b>No information available.</b>					
	CARCINOGENICITY <b>Mutagenicity: Mutation references cited (RTECS)</b>					
	OTHER TOXICOLOGICAL EFFECTS					
	Seek medical attention for all serious forms of exposure.					
	EMERGENCY AND FIRST AID PROCEDURES <b>Eyes and Skin: immediately flush with a stream of running water for a minimum of 15 minutes, occasionally lifting eye lid. Wash skin with soap and water.</b>					
	<b>Inhalation: Remove victim to fresh air. Give artificial respiration if breathing has stopped.</b>					
<b>Ingestion: Get immediate medical attention. Rinse mouth with water.</b>						
Give large amount of water or milk. Do not induce vomiting.						
<b>PREVENTIVE MEASURES</b>	RESPIRATORY PROTECTION					
	VENTILATION	LOCAL EXHAUST <b>local exhaust or general dilution ventilation system</b>			SPECIAL	
		MECHANICAL (GENERAL)			OTHER	
	HAND PROTECTION <b>rubber or plastic</b>			EYE PROTECTION <b>chemical safety goggles</b>		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL <b>No special precautions indicated.</b>					
	<b>Flush spill area with water.</b>					
	WASTE DISPOSAL METHOD <b>Dispose of in accordance with local, provincial, and federal laws.</b>					
	HANDLING PROCEDURES AND EQUIPMENT <b>Avoid generating dust.</b>					
	STORAGE REQUIREMENTS <b>General storage. Store in cool, dry place. Keep container sealed to guard product integrity</b>					
	SPECIAL SHIPPING INFORMATION					
<b>PREPARATION</b>	PREPARED BY <b>Peter Bakker</b>		APPROVED BY <b>Peter Bakker</b>			
	TITLE <b>Chemistry Manager</b>		TITLE <b>Chemistry Manager</b>		TELEPHONE <b>(519) 941-8161</b>	
			<i>Peter Bakker</i>		DATE <b>November 5, 2009</b>	
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