

MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT Reference Electrode Fill Solution		CHEMICAL FAMILY Inorganic Salt				
	PRODUCT NUMBER Orion 150072		FORMULA CsBr				
	MANUFACTURER'S NAME AND ADDRESS Thermo Fisher		PRODUCT USE				
	166 Cummings Center		EMERGENCY TELEPHONE NO. 800-424-9300				
	Beverly, MA 01915						
	CONTAINER SIZE AND TYPE 2 ounce bottle		USE AS RECEIVED	YES			
HAZARDOUS INGREDIENTS	SHIPPING NAME		CLASS				
	PIN	WHMIS Classification Not controlled — inherently non-hazardous		PACKING GROUP			
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	CAS REGISTRY NO.	
	1	5-20	Cesium Bromide			7787-69-1	
	1	80-95	water				
			The above products are non-hazardous. This product does not contain any hazardous ingredients.				
PHYSICAL DATA	FREEZING POINT		-5 °C	MELTING POINT	N. Appl. °C	BOILING POINT	Not App.°C
	VAPOUR PRESSURE		Not Avail.	VAPOUR DENSITY (AIR = 1)	N. Avail.	SPECIFIC GRAVITY (H ₂ O = 1)	1.1
	COEFFICIENT OF WATER/OIL DISTRIBUTION		Not Appl.	EVAPORATION RATE	Not Avail.	pH AT 25 °C	4-9
	ODOUR THRESHOLD		Not Avail.	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER X		
	ODOUR AND APPEARANCE colourless solution, odourless						
	FLASH POINT AND METHOD OF DETERMINATION		Not available		FLAMMABLE LIMITS	L.E.L. N. A.	U.E.L. N. A.
FIRE & EXPLOSION DATA	CONDITIONS OF FLAMMABILITY						
	MEANS OF EXTINCTION						
	HAZARDOUS COMBUSTION PRODUCTS						
					AUTO IGNITION TEMP.	°C	
	EXPLOSION DATA	SENSITIVITY TO MECHANICAL IMPACT none					
		SENSITIVITY TO STATIC DISCHARGE none					
SPECIAL FIRE FIGHTING PROCEDURES							

MATERIAL SAFETY DATA SHEET

REACTIVITY	STABLE	YES	CONDITIONS TO AVOID		PRODUCT NUMBER Orion 150072		
	UNSTABLE						
	INCOMPATIBILITY—MATERIALS TO AVOID						
	HAZARDOUS DECOMPOSITION PRODUCTS						
CONDITIONS OF REACTIVITY							
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY		INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
	EFFECTS OF EXPOSURE (ACUTE) This product poses a minimal health hazard when following normal handling procedures.						
	EFFECTS OF EXPOSURE (CHRONIC)						
	EXPOSURE LIMITS						
	SENSITIZATION TO PRODUCT						
	CARCINOGENICITY						
	OTHER TOXICOLOGICAL EFFECTS						
	EMERGENCY AND FIRST AID PROCEDURES Ingestion: drink plenty of water.						
	Eyes: irrigate with water.						
	RESPIRATORY PROTECTION						
PREVENTIVE MEASURES	VENTILATION		LOCAL EXHAUST		SPECIAL		
			MECHANICAL (GENERAL)		OTHER		
	HAND PROTECTION			EYE PROTECTION			
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Flush to drain.						
	WASTE DISPOSAL METHOD						
	HANDLING PROCEDURES AND EQUIPMENT						
	STORAGE REQUIREMENTS						
	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			
<p><i>The information provided in this Material Safety Data Sheet is compiled from data currently available to us. Safe use of the materials and adoption of safety precautions are the responsibility of the user. IC CONTROLS makes no representation or warranties, either express or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, IC CONTROLS will not be responsible for damages, including consequential damages, resulting from the use of or reliance upon this information.</i></p>							