

MATERIAL SAFETY DATA SHEET

DATE: June 2014

SECTIO	ON 1 MATI	ERIAL IDENTIFICATION				
CHEMICAL NAME	Iridium 192					
CHEMICAL SYNONYMS	Ir-192	CHEMICAL FAMILY	Metal – not in particulate form			
MANUFACTURER		SUPPLIER				

	SECTION	2 HA	ZARDS IDENTIFICATION		
INGREDIENT	Activity or %	TLV	Radiation Category	%	TLV
Gamma-Ray Energy (keV)	662		Radiological half-life 74 days		
Specific Activity	~450 Ci/g		Effective half-life 110 days		
	(12162 TBq/g)				
CNSC Permitted Exposures: 20 mSv/y for R	adiation Workers; 1 m	Sv/y for Genera	l Public		
SECTION 3 PHY	SICAL DATA				
BOILING POINT: 760 mm Hg (°C)	413	30	SOLUBILITY IN WATER, % by weight @ 25°C	insolu	ıble
VAPOUR PRESSURE: 20°C (mm Hg)	N/	A	SPECIFIC GRAVITY $(H_2O = 1)$	22.	4
VAPOUR DENSITY (air = 1)	N/	A	EVAPORATION RATE (butylacetate = 1)	N/2	4
рН	N/	A	MELTING POINT	2410	^{0}C
APPEARANCE AND ODOUR:	Silver white metal	in a sealed sour	ce.		
SECTION 4 FIR	E AND EXPLOSION	N HAZARD DA	ТА		
FLASH POINT (°C); TEST METHOD:		None	FLAMMABLE LIMITS LEL		UEL
AUTOIGNITION TEMPERATURE (°C)		None			
EXTINGUISHING MEDIA:	N/A.				
SPECIAL FIREFIGHTING PROCEDUR	ES: N/A.				
UNUSUAL FIRE AND EXPLOSION HAZ	ZARDS: None.				
SECTION 5 REA	CTIVITY DATA				
STABILITY:	STABLE	Х	CONDITIONS TO AVOID: None		
	UNSTABLE				
INCOMPATIBILITY:	None.				
HAZARDOUS DECOMPOSITION PROP	DUCTS:				
HAZARDOUS POLYMERIZATION:	WILL NOT OCCU	J R X	CONDITIONS TO AVOID: None.		



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SECT	ION 6 HEALTH HAZARD DATA				
	Inhalation: Will result in increased internal radiation dose				
EFFECTS OF OVEREXPOSURE:	Ingestion: Will result in increased internal radiation dose				
	Eyes: Increased radiation dose				
	Skin: Will result in increased radiation dose				
	Inhalation: Remove to fresh air and stand upwind if outside. Seek medical attention for radiation intake.				
EMERGENCY	Ingestion: Drink large volumes of water. Removed from source. Seek medical attention for radiation intake.				
FIRST AID PROCEDURES:	Eyes: Flush open eye(s) continuously for 15 minutes with clean, running water. Remove from source. See Physicisan for external radiation or if irritation persists.				
	Skin: Wash well with soap and water. Remove contaminated clothing. Remove from source. See Physcisan for external radiation or if irritation persists.				
ACCIDENTAL					
RELEASE MEASURES					
	NOTE: IN ALL CASES, OBTAIN MEDICAL AID PROMPTLY.				
SECT	ION 7 SPECIAL PROTECTION INFORMATION				
VENTILATION:	Wear respiratory protection and stand upwind				
RESPIRATORY PROTECTION:	Air purifying respirator with combination radio-nuclide cartridge, or SCBA where spill has occurred				
PROTECTIVE CLOTHING:	Wear lead-lined aprons and gloves before handling				
EYE PROTECTION:	□ NOT NORMALLY NECESSARY □ SAFETY GLASSES WITH SIDE SHIELDS □ SAFETY GLASSES □ GASTIGHT GOGGLES OR EQUIVALENT ☑ CHEMICAL WORKERS GOGGLES □ OTHER				
SECT	ION 8 SPECIAL PRECAUTIONS				
PRECAUTIONS IN HANDLING AND STORAGE:	All shippers and consignees must possess radioisotope license and conform with all conditions of license.				
OTHER PRECAUTIO	NS:				
SECT	ION 9 SPILL OR LEAK PROCEDURES				
	N IF MATERIAL SPILLED OR LEAKED: Note also Section 7. If spill occurs, keep away from area. If in transport mode, call CANUTEC nada or USDOT at (202) 426-2675 in USA.				
SECTION 10 WASTE	DISPOSAL METHOD: If on site, follow instructions on site license or as directed by local Radiation Control Officer.				
	ING AND STORAGE: Keep away from incompatibles such as acids, oxidizing agents, etc. Keep away from high temperatures.				
SECTION 12 TOXICO	DLOGICAL INFORMATION: Routes of entry: Inhalation, ingestion. Slightly hazardous in case of skin or eye contact (irritant), or in case of				
SECTION 13 ECOLO	GICAL INFORMATION: N/A				
SECTION 14 DISPOS	AL CONSIDERATIONS: Must be disposed of in an approved radioactive material waste site				
SECTION 15 TRANSI applicable regulations.	PORT INFORMATION: UN2916, Radioactive Material, Type B(U) Package, Class 7. Transport must take place in accordance with all				
SECTION 16 REGUL	ATORY INFORMATION: Shippers must be licensed to possess. Carriers must be certified to transport.				
SECTION 17 OTHER	INFORMATION: None				
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