RADIONUCLIDE SAFETY DATA SHEET					
RADIONUCLIDE: Co-57			FORMS: Soluble		
PHYSICAL HALF-LIFE: 2 DECAY EMIS	-	TICS	1		
Gammas / X-rays Betas / Positro		Betas / Positrons	s (+) / Electrons* Alphas		
E (keV)	%	E (keV, Ave)	%	E (keV)	%
122	86	13*	7		
136	11	115*	2		
14	9	130*	1		
- Only 4 most pi	robable emissions per o	decay type included. Emission	s below 10 keV or 1%	excluded.	
B – level (mo A – level (hig	/ hazard): ≤ 20 mC derate hazard): > 3 h hazard): > 1 Ci	20 mCi, ≤ 1 Ci			
EXTERNAL RADIATION HAZARDS Gamma dose rate, point source at 1 ft, 1 mCi: 0.71 mrem/h Beta dose rate to skin, point source at 1 ft, 1 mCi:			INTERNAL RADIATION HAZARDS Annual Limit on Intake: 4000 μCi (Ingestion) 700 μCi (Inhalation) The values above indicate the activity taken into the		
0 mrem/h Contamination skin dose, uniform deposit of 1 μCi per cm ² : 440 mrem/h			body that would result in either 5 rem to the whole body (CEDE) or 50 rem to an organ or tissue (CDE).		
SHIELDING Gammas/X-rays: 0.8 mm of lead will reduce the gamma dose rate by 90%.			DOSIMETRY AND BIOASSAY REQS Whole-body and finger-ring dosimeters are required for handling 5 mCi or more, or 1 mCi amounts weekly . Urine assays may be required after large spills or contaminations.		
Betas/elect N/A	ons:				
1. 2. 3. 4.	Recommended su Always wear prote contamination. Ch Survey work areas Segregate waste t	PRECAUTIONS: rvey probe: Nal ective gloves, a lab coat, nange gloves often. before, during, and afte o those with half-lives of e to the sewer to less the	r work. Instrume greater than 120	nt and smear s days (excludi	urveys are required.

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