45 a	Nuclide Safety Data Sheet Calcium-45 www.nchp.org	45 a

I. PHYSICAL DATA

Radiation:	Beta (100% abundance)
Energy:	Maximum: 257 keV; Average: 77 keV
Half-Life [T½]:	Physical T½: 162.61 days
	Biological T½: One: 18,000 days [1]
	Effective T½: 163 days
Specific Activity:	17,800 Ci/g [659 TBq/g] max.
Beta Range:	Air: 52 cm [20 inches]
	Water/Tissue: 0.062 cm [0.024 inches]
	Plastic: 0.053 cm [0.021 inches]

II. RADIOLOGICAL DATA

Radiotoxicity [2]:	35.8 mrem/uCi [Lung] 16.2 mrem/uCi [Bone] of ^{45}Ca inhaled
	19.4 mrem/uCi [Bone] 3.2 mrem/uCi [CEDE] of ^{45}Ca ingested
Critical Organ:	Bone; Lung [Inhalation]
Exposure Route:	Ingestion, inhalation, puncture, wound, skin contamination absorption
Radiological Hazard:	