Radionuclide Safety Data Sheet

F-18	Radionuclide:		Fluorine-18				Half-life	
	Atomic Number		9	Atomic Weight		18	1.83 hours	
Annual Limit on Intake (Bq)								
Ingestion	All compounds:		4.0E+0	8 Inhalati	on All compo			unds: 2.2E+08
Radiation Characteristics								
Principal Emissions		Maximum Energy (MeV)		Dose Rate	Dose Rate at 1 m (mSv/h/GBq)			Shielding
Gamma	0.51				0.188			HVL lead: 6 mm
Detection and Measurement								
Method of detection Dosimetry:	ction:	ion: <u>G-M detectors, scintillation detector or ion-chamber</u> External: <u>Whole body</u>						
Protective Measures								
 Critical organs: Stomach (ingestion), lung (inhalation) Hazards: External and internal exposure. Contamination Exposure routes: Ingestion, inhalation, puncture, wound, skin contamination/absorption Recommended Protective Clothing: Wear appropriate protective clothing such as laboratory coats, coveralls, gloves, safety glasses/goggles. Always use appropriate tools and avoid direct hand contact. Store F-18 behind lead shielding 								
Sources and application of F-18								
F-18 is an artificially made radionuclide and used in medical diagnostic and therapeutic purposes								