# RADIONUCLIDE DATA SHEET

# [SULFUR]

S-35

16 protons

19neutrons

*Half Life:* 87.2 days

**Radiation:** Decay Mode: Beta

**Gamma Constant:** 0 mR/hr per 1 mCi at 30 cm

#### **Major Betas:**

Max E(MeV)	Avg E (MeV)	# per 100 dis
0.167	0.049	100

Max. Beta Range in Air : 32 cm Max. Beta Range in Water : 0.7 cm

Average gamma E = 0 MeV

## Intake Data (annual):

Minimum Ingestion: 6000 μCi equals 5 rem TEDE (WHOLE BODY) Minimum Inhalation: 2000 μCi equals 5 rem TEDE (WHOLE BODY)

Doses:

**Skin Dose:** Reported for 1  $\mu$ Ci over 10 cm<sup>2</sup> of skin

0 mrad/hr (gamma dose) Point Source: 121 mrad/hr (beta dose) Disk Source: 123 mrad/hr (beta dose)

# **Shielding Information:**

Maximum Range For Beta	Plastic	0.03 cm	
	Aluminum	0.02 cm	
Tenth Value Thickness For	Concrete	0 cm	
Average Gamma:	Lead	0 cm	

## **<u>Detection information:</u>** Usable Detectors listed with estimate efficiencies

Ludlum 3 w/ pancake probe at 1 cm	3%	Liq. Scint. Counter	85%
Ludlum 3 w/ Nal probe near surface	0%	Gamma Counter	0%

## **Action Quantities:**

Bench Top Quantity Must Be Less Than	20000 μCi
Containers Require Labeling When Greater Than	100 μCi
Rooms Require Posting When There Is Greater Than	1000 μCi
Contamination Lasting More than 24 hrs Require NRC Notification At	10000 μCi