

**IRR99 Requirements**

**HSE NOTIFICATION LEVEL:** for work ..... **100 MBq**  
 for inadvertent release or spill .....**100 GBq**  
 for loss or theft .....**1 GBq**

**CONTROLLED AREA** needs to be considered if activity exceeds .....**450 MBq**  
 (see below for consideration of supervised area limits)

**SUPERVISED AREA** will be required if activity exceeds ..... **100 MBq**

**Supervised Area Limits**

Grade C lab      - non-volatile work      - up to 1.8 GBq  
                          - volatile work in FC      - up to 450 MBq

Grade B lab      - non-volatile work      - up to 18 GBq  
                          - volatile work in FC      - up to 4.5 GBq

**ANNUAL LIMIT OF INTAKE (ALI)** ..... **15 MBq**  
 (Most restrictive one given, equivalent to dose of 20 mSv)

**Special Considerations and Monitoring**

Some compounds may penetrate gloves and skin, or be incorporated in the skin. Some compounds may release radioactive gases on opening the vials. Take note of the user precautions provided by the supplier and to be on the safe side open all vials in a fume cupboard.

Because of the low toxicity of S-35, up to 100 MBq can be used in non-designated areas which have been registered for radioactive work with Safety Services. However, work with trace amounts should always be segregated from work with large quantities of material.

All work with volatile materials must be carried out in a fumecupboard and all dispensing of stock material at supervised area levels must be carried out behind a screen. Whatever the level of work, there is the responsibility to keep doses as low as reasonably practicable. In order to meet this requirement, strict adherence to the laboratory rules is essential and monitoring should be performed on a regular basis to ensure that contamination is being kept below 100 Bqcm<sup>-2</sup>. Expected monitor responses at this level are as follows:-

	Old Mini E	New E	EL
Counts above bg (100 Bqcm <sup>-2</sup> )	30-40	65	140

It is intended that each monitor will have advised action levels marked on it.