

6. EVALUATION

6.1 Cancer in humans

There is *sufficient evidence* in humans for the carcinogenicity of welding fumes. Welding fumes cause cancer of the lung. Positive associations have been observed with cancer of the kidney.

There is *sufficient evidence* in humans for the carcinogenicity of ultraviolet radiation from welding. Ultraviolet radiation from welding causes ocular melanoma.

6.2 Cancer in experimental animals

There is *limited evidence* in experimental animals for the carcinogenicity of gas metal arc stainless steel welding fumes.

6.3 Overall evaluation

Welding fumes are *carcinogenic to humans* (Group 1).

Ultraviolet radiation from welding is *carcinogenic to humans* (Group 1).