

**REQUIREMENTS FOR SUNBEDS
INTENDED FOR NORMAL HOUSEHOLD USE AND FOR USE IN TANNING
SALONS, BEAUTY PARLOURS AND SIMILAR PREMISES**

Department of Health
Directorate: Radiation Control
Private Bag X62
Bellville
7535

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1. Applicability

In terms of the Hazardous Substances Act, Act 15 of 1973, these requirements apply to any sunbed operated or used for non-medical purposes. These requirements deal with safety measures with regard to the installation and operation of sunbeds and with limiting the accessible levels of UVA and UVB radiation levels to reduce the potential for skin and eye damage.

2. Definitions

For the purpose of these requirements, the following definitions apply:

- Sunbed: electrotechnical device containing one or several ultraviolet radiation sources and intended for irradiating the skin of human beings with ultraviolet radiation for tanning purposes.
- Ultraviolet radiation: electromagnetic radiation with wavelengths within the range 180-400 nanometer (nm).
- UV type: classification of sunbeds with respect to radiation properties that are defined in the European standard EN 60335-2-27.
- UV type 1 sunbed: sunbed provided with a UV source such that biological effect is caused by radiation having wavelengths **longer** than 320 nm and characterised by a **relatively high** irradiance in the range 320 nm to 400 nm. **These sunbeds are intended to be used only in tanning salons, beauty parlours and similar premises, under supervision of appropriately trained persons.**
- UV type 2 sunbed: sunbed provided with a UV source such that biological effect is caused by radiation having wavelengths both **shorter and longer** than 320 nm and characterised by a **relatively high** irradiance in the range 320 nm to 400 nm. **These sunbeds are intended to be used only in tanning salons, beauty parlours and similar premises, under supervision of appropriately trained persons.**
- UV type 3 sunbed: sunbed provided with a UV source such that the biological effect is caused by radiation having wavelengths both **shorter and longer** than 320 nm and characterised by a **limited** irradiance over the whole UV radiation band. **This type of sunbed may be used by unskilled persons.**

3. General requirements

Compliance with the electrical safety requirements as specified by the manufacturer shall be maintained.

The sunbed shall be of the UV type 1, 2 or 3 and fulfil the radiation protection requirements that apply to this category or alternatively be equipped with UV sources which are compatible with UV type 1, 2 or 3.

The sunbed shall be provided with a timer that terminates the emission of ultraviolet radiation and has a maximum setting of 60 min.

Guards intended to prevent inadvertent ignition of flammable material shall have adequate mechanical strength and shall be securely attached to the sunbed.

Parts of the sunbed, which are intended to support a person, shall have adequate mechanical strength.

Sunbeds incorporating parts that are suspended, or intended to be raised and lowered over a person shall incorporate a safety device so that failure of the means of suspension or excessive travel of any such part will not result in injury.

Emitters intended for full body exposure of a person shall be protected against accidental damage.

Sunbeds provided with a lid that has to be opened in normal use shall be so constructed as to prevent the lid from closing inadvertently.

The sunbed shall be located or shielded in such a way as to prevent other human beings from being irradiated unintentionally.

The sunbed shall be supplied with at least two pairs of protective goggles that ensure adequate protection for the eyes. The maximum transmission of the goggles shall be 0,1% for wavelengths between 250 and 320 nm; 1% for wavelengths between 320 nm and 400 nm; and 5% for wavelengths between 400 nm and 550 nm.

4. Label

- The sunbed shall be marked with the type reference of the emitter (“UV type 1”, “UV type 2” or “UV type 3”). **Type 1 and type 2 sunbeds are intended to be used only in tanning salons, beauty parlours and similar premises under supervision of appropriately trained persons.**

The sunbed shall be marked with the following warning:

- “WARNING – Ultraviolet radiation may cause injury to eyes and skin. Read instructions carefully. Wear the protective goggles provided. Certain medicines and cosmetics may increase sensitivity”

The markings shall be permanently affixed and visible without removal of a cover, the sunbed being installed as in normal use. The information shall be clearly visible and legible to any person intending to use the sunbed. Lettering of at least 10 mm (height) for the word “WARNING” and 5 mm for the rest of the information on the label is required.

5. Sign

The sunbed shall be marked with the electro-optical radiation sign in accordance with Figure 1. The minimum length for the legs of the equilateral triangle shall be 50 mm.



**SYMBOL AND BORDER: BLACK
BACKGROUND: YELLOW**

Figure 1: Sunbed radiation sign

6. Operating manual

The instructions for use shall include the following:

- A statement that this UV sunbed is not to be used by persons who
 - burn without tanning,
 - suffer from sunburn,
 - have skin cancer,
 - have had skin cancer at any stage in the past,
 - are predisposed to skin cancer,
 - are regarded to be children.

- Information concerning the intended exposure distance, unless this is controlled by the construction of the UV sunbed.

- Information on the cleaning of the tanning surface of the sunbed.

- Recommendations on the schedule of exposure taking into account exposure times, intervals between exposures and individual skin sensitivity.

- A statement that the sunbed must not be used if the timer is faulty or if the filter is broken or has been removed.

- Identification of replaceable UV emitters as well as of alternative components which influence the ultraviolet radiation, such as filters and reflectors.

- A statement that replaceable UV emitters must be replaced only by identical or equivalent UV emitters.

- Information that ultraviolet radiation from sunbeds can cause skin or eye damage. These biological effects depend upon the quality and quantity of the radiation as well as the skin and eye sensitivity of the individual.

- A precaution that the skin may develop sunburn after an excessive exposure. Excessive exposure to ultraviolet radiation from sunbeds may lead to premature ageing of the skin as well as increased risk of developing skin cancer.

- A precaution that the unprotected eye may develop surface inflammation or cataracts after repeated exposure. In some cases, for example after a cataract operation, damage may occur to the retina after excessive exposure.

- Information that special care is necessary in cases of pronounced individual sensitivity to ultraviolet radiation and in cases where certain medicines or cosmetics are being used.
- For sunbeds having a lid that has to be opened for normal use, the instructions for use shall include a warning that the sunbed must not be switched on with the lid in the closed position. Also include a warning that before closing the lid for storage, the sunbed must be disconnected from the supply and allowed to cool down.
- A summary consisting of the following precautions:
 - Always wear the protective goggles provided,
 - Remove cosmetics well in advance of exposure and do not apply any sunscreens,
 - Do not undergo exposure when taking medicines that increase sensitivity to ultraviolet radiation. If in doubt, obtain medical advice,
 - Allow at least 48 hours between the first two exposures,
 - Do not sunbathe and use the sunbed on the same day,
 - Follow the manufacturer's recommendations concerning exposure duration, exposure intervals and distances from the lamp(s),
 - Seek medical advice if persistent lumps, sores or pigmented moles develop on the skin.