

## UV Safety Data Sheet

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: Genus® Orbit 3 x 15W Insect Light Trap  
Product code: Genus® ORB45-2TX201X and variants  
Product use: Elimination of flying insects  
Document No.: 05-080419  
Preceding doc. Ref: N/A  
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#### In Europe:

Company: Brandenburg UK Ltd  
29 Navigation Drive,  
Hurst Business Park  
Brierley Hill  
West Midlands  
DY5 1UT

Emergency Telephone Number: +44 (0) 1384 472900  
Technical Assistance Telephone Number: +44 (0) 1384 472900

#### In the USA

Company: Brandenburg NA  
3780 Rider Trail South,  
Earth City,  
MO 63045  
USA

Emergency Telephone Number: +1 314 567 4101

### **2. UVA SOURCE**

The UVA Source is a compact 36W BL- biaxial fluorescent lamp.

### **3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: No special dangers are known.

#### POTENTIAL HEALTH HAZARDS:

SKIN: Not anticipated under recommended exposure conditions.

EYES: Not anticipated under recommended exposure conditions.

DELAYED EFFECTS: Over-exposure to the UV radiation in the range 315-400nm from the unit can lead to erythema and elastosis of the skin and eye damage including cornea damage, cataracts and conjunctivitis.

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In the Risk Classification system of IEC / EN 62471 and ANSI IESNA RP 27 (see Section 15 below), measurements of the emitted radiation over the wavelength range 200 to 600nm resulted in the unit being assigned to Risk Group 1 (Low Risk).

**4. FIRST-AID MEASURES:** N/A

**5. FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: carbon dioxide, dry chemical

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: None

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: none

**6. ACCIDENTAL RELEASE MEASURES :** N/A

**7. HANDLING AND STORAGE**

NORMAL HANDLING: No special requirement

STORAGE RECOMMENDATIONS: No special requirement

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

PERSONAL PROTECTIVE EQUIPMENT: Not required.

EXPOSURE GUIDELINES/LIMITS: Measurements according to IEC / EN 62471 and ANSI IESNA RP 27 (see Section 15 below) have shown that the 'Hazard Distance', i.e. that distance from the system at which a person can safely spend an entire working day of 8 hours, is **216mm (8.5 inches)**. Consequently the system must be positioned such that no work station is closer than 216mm (8.5 inches) to the unit.

Protection against effects of exposure to UVA is not required provided that all personnel are excluded from locations closer than the 'Hazard Distance' quoted above.

**9. PHYSICAL AND CHEMICAL PROPERTIES:** N/A

**10. STABILITY AND REACTIVITY:** N/A

**11. TOXICOLOGICAL INFORMATION:** N/A

**12. ECOLOGICAL INFORMATION:** N/A

**13. DISPOSAL CONSIDERATIONS**

Dispose of packaging as solid waste according to local regulations.

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Dispose of lamps in accordance with local legislation.

Dispose of the unit with lamps removed in accordance with local legislation.

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**14. TRANSPORT INFORMATION:** No special requirement

### **15. REGULATORY INFORMATION**

Insect Light Traps must comply with the specific standard IEC 60335-2-59 – “Household and similar electrical appliances –Safety – Part 2-59: Particular requirements for insect killers.” This specifies that at 1m distance, the *Effective Near UV Irradiance\** shall not exceed 1mW/sq m. In addition, units put on the market in the EU must comply with the requirements of the EU Directive 2006/25/EC “*The Artificial Optical Radiation Directive*”. Also relevant are IEC/EN 62471 “Photobiological Safety of Lamps and Lamp Systems” and ANSI IESNA RP 27 “Recommended Practice for Photobiological Safety for Lamps – Risk Group Classification”.

\*The *Effective Near UV Irradiance* is the UVA irradiance weighted at each wavelength according to the adverse effects on human tissue at that wavelength.

The Brandenburg Genus® Spectra Compact Insect Light Trap meets the US Standard for Safety of Portable Electric Luminaires, UL153 and the Canadian Standard CSA C22.2 No. 12 “Portable Luminaires”. These standards relate to mechanical and electrical safety.

### **16. OTHER INFORMATION**

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof, however, Brandenburg UK Ltd makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user’s own assessment of workplace risks as required by other health and safety legislation.