

**Besselink Licht Import BV**  
**SAFETY DATA SHEET (SDS)**

<b>Section 1.</b>	<b>Identification</b>
	Besselink Licht Import BV Nieuwgraaf 10 1.1 Company: 6921 RJ DUVEN THE NETHERLANDS Emergency Phone number: +31 26 3190630
	1.2 Product: LED Lamp (LED bulb)
<b>Section 2.</b>	<b>Hazards Identification</b>
	<p>There are no known health hazards from exposure to bulb that are intact. This product is identified as an 'inert or article' and does not require a Safety Data Sheet (SDS), the following data is provided for informational purposes only.</p> <p>Hazard Classification:</p>
<b>Section 3.</b> <b>Composition/information on ingredients</b>	
3.1	Exempt article ingredients not measured
3.2	These items are light bulbs in various shapes, configurations, and designs. All contain solid-state light emitting diodes (LEDs) as the light-generating source. These LEDs are contained in various bulb (envelope) types and shapes that may be constructed of aluminum, glass, plastic, or a combination of these materials. Some products also contain circuitry to energize the LEDs. All bulbs are fitted with a metal base or pins for installation in appropriate lighting fixtures. These bases are generally comprised of aluminum, nickel-plated tin, nickel-plated brass, plastic or a combination of these materials.
<b>Section 4.</b>	<b>First aid measures</b>
4.1	Eyes Not applicable
4.2	Skins 4.2.1. Wash with soap and water 4.2.2. Treat lacerations using standard first aid procedures 4.2.3. Seek medical attention.
4.3	Inhalation: Not applicable
4.4	Call local clinic if you feel not well.
4.5	Physicians: Treat according to person's condition and specifics of exposure.
<b>Section 5.</b>	<b>Firefighting measures</b>
5.1	Flash point: Not applicable
5.2	Lower/Upper Explosive Limit: Not applicable
5.3	Extinguishing Media: Water, sand or carbon dioxide
5.4	Extinguishing Media to Avoid: No
5.5	Protection of Firefighters 5.5.1 Hazardous Decomposition Products: Not applicable 5.5.2 Unusual Fire and Explosion Data: Material may be electrically conductive. Protective Equipment and Precautions for Firefighters: 5.5.3 Standard protective equipment and precautions – Self-contained breathing apparatus (SCBA) and full firefighting turnout gear
5.6	Unusual Fire Hazards: No
<b>Section 6.</b>	<b>Accidental Release Measures</b>
6.1	No special precautions necessary upon accidental breakage other than the obvious precautions for cleaning up broken glass. Protective gloves and eye protection should be worn when cleaning up broken glass. Dispose the broken materials in an impermeable container with appropriate label.
6.2	Refer to section 5, 6.1 and 8 for details about personal protective equipment requirements.
6.3	Refer to section 13 & 15 for details about possible additional guidance regarding regulatory requirement
<b>Section 7.</b>	<b>Handling and storage</b>
7.1	New bulbs being held for use should remain in their original packaging, or other protective packaging, and should be placed in a dry storage area that minimizes any risk of accidental breakage.
7.2	Always disconnect from electric supply before installation, cleaning, maintenance or replacing the bulb.
7.3	To avoid heat contact, please allow sufficient time for bulb cooling after disconnecting the electric supply. Heat-insulated gloves is recommended to wear when any contacting the bulb.
7.4	Follow NFPA 654 (dusts) and 484 for metal dust for managing dust hazards.

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**Section 8. Exposure controls/personal protection**

8.1 Appropriate Engineering Controls: Do not use any bulbs in applications where people and/or animals will be uncomfortably exposed to light for a long time, as this may cause eye injuries. If the bulb appears to be damaged, turn off the power first, then repair or replace the product before putting it into use. If you want to dispose of any material in a way that generates particles (mechanical rupture at the end of the product's life cycle and during recycling), use exhaust ventilation and/or wet working methods to minimize the breathing of particles to the studio air and employees release.

8.2 Personal Protective Equipment

- 8.2.1 Respiratory: No special requirement. If mechanical methods are used to rub or reduce the size of the item, proper local ventilation or air purifying respirators should be used.
- 8.2.2 Skin protection: 8.2.2.1 If there is a risk of rupture, impermeable and/or cut resistant gloves should be worn. 8.2.2.2 The working bulb is hot. It is recommended to use heat-insulated gloves. Before touching the product, be sure to allow enough time for the product to cool down.
- 8.2.3 Eye/Face Protection: Wear safety glasses with side shields to prevent the product from entering unprotected eyes. If maintenance personnel need to use lighting bulbs without light diffusers and/or filters, they should wear appropriate filter glasses.

8.3 Generic Hygiene Person(s) who contact with product should wash their face and hands before eating, Considerations: drinking or smoking.

8.4 Additional Exposure Information: Not applicable

**Section 9. Physical and chemical properties**

9.1 Physical form: Solid  
9.2 Color: Opaque/Translucent  
9.3 Odor: No / very few  
9.4 Odor threshold: Not applicable  
9.5 pH: Not applicable  
9.6 Sublimes at: Not applicable  
9.7 Decomposition temperature: No vapor expected  
9.8 Evaporation rate: 0  
9.9 Relative density (g/cc): Not applicable  
9.10 Vapor density (air = 1): No vapor expected  
9.11 Fat solubility (mg/kg, °C): Not applicable  
9.12 Water solubility (mg/kg °C): Not applicable  
9.13 Partition coefficient (low Pow): Not applicable  
Flammability:  
9.14 Flash point (°C): Not applicable  
Explosivity limits (% v/v):  
9.15 Auto-ignition temperature (°C): Not applicable  
9.16 Volatility by Weight: <0.01%  
9.17 Oxidizing properties: Not applicable  
9.18 Other physical-chemical properties: Not applicable  
9.19 Viscosity: Solid

**Section 10. Stability and Reactivity**

10.1 Reactivity: Usually stable  
10.2 Chemical Stability: Usually stable  
10.3 Possibility of hazardous reaction: No  
10.4 Conditions to avoid: Rapid temperature changes may cause the casing to crack.  
10.5 Incompatible materials: Since the bulb generates heat during operation, the use of flammable materials and objects adversely affected by heating or drying should be avoided.  
10.6 Hazardous decomposition products: No

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<b>Section 11.</b>	<b>Toxicological Information</b>	
	11.1	Acute toxicity oral: No applicable information was found
	11.2	Carcinogenicity: Some components may contain carcinogens listed by IARC, but these quantities typically are well below 0.1% of the total.
	11.3	Acute toxicity inhalation: No applicable information was found
	11.4	Skin irritation / corrosion: No applicable information was found
	11.5	Serious damage to eyes / eye irritation: No applicable information was found
	11.6	Skin and respiratory sensitization: No applicable information was found
	11.7	Specific target organ toxicity following single or repeated exposure: No applicable information was found
	11.8	Toxicity following single exposure: No applicable information was found
		Oral: No applicable information was found
		Inhalation: No applicable information was found
	11.9	Toxicity repeated exposure: No applicable information was found
	11.10	Reproductive toxicity: No applicable information was found
	11.11	STOT - single exposure: No applicable information was found
	11.12	STOT - repeated exposure: No applicable information was found
	11.13	Aspiration hazard: No applicable information was found
<b>Section 12.</b>	<b>Ecological Information</b>	
	12.1	Air: No air pollution should occur
	12.2	Water: Solid; almost no solubility; may sink into water
	12.3	Soil: The possibility of landfill renovation is unlikely
	12.4	Degradation: Not bio-degradable
	12.5	Toxicity to water organisms: Unlikely/low risk
	12.6	Toxicity to soil organisms: Unlikely/low risk
	12.7	Bioaccumulation: Solid; almost no solubility; may sink into water
	12.8	Water treatment plants: Solid; almost no solubility; may sink into water
<b>Section 13.</b>	<b>Disposal Considerations</b>	
	13.1	Waste treatment methods When the bulb breaks, normal precautions should be taken to collect glass particles.
	13.2	Recycling Recommends that users recycle LED bulbs at the end of their life, especially if being disposed in significant quantities. Most traditional bulb recyclers will recycle LED bulbs. For a list of recyclers, go to <a href="http://www.bulbrecycle.org">www.bulbrecycle.org</a> . You should review your waste handling practices to assure that you dispose of waste bulbs properly and contact your local environmental department if there are any questions about state regulations that may apply.
<b>Section 14.</b>	<b>Transport Information</b>	
		No applicable information was found. This material is not classified as a hazardous material or dangerous good by the U.S. Department of Transportation, the International Air Transport Association, or the International Civil Aviation Organization.
<b>Section 15.</b>	<b>Regulatory Information</b>	
		Safety, health and All bulbs sold meet the requirements of European Commission Directives: environmental Low Voltage directive (LVD) 2014/35/EU
	15.1	regulations/legislation EMC directive (EMC) 2014/30/EU specific for the substance ErP directive (ErP) (EU) 2019/2020 or mixture RoHS directive (RoHS) 2011/65/EU + Amendment (EU) 2015/863
	15.2	Chemical safety All bulbs sold meet the requirements of European Commission Directive 2006/1907/EC assessment REACH (Chemical Registration, Evaluation, Authorization and Restriction).
<b>Section 16.</b>	<b>Other information</b>	
	16.1	Preparer: This Product Safety Data Sheet for LED (Light Emitting Diode) bulbs was prepared in 2020 by Besselink Licht Import BV. The information set forth herein is presented in good faith and believed to be correct. Besselink Licht Import BV, however, makes no representations are made as to the
	16.2	Disclaimer: completeness or accuracy thereof. The purchaser is solely responsible for compliance with all applicable laws and regulations concerning the use of this product. Neither Preparer nor Company assumes any liability or responsibility for its use.