

SAFETY DATA SHEET

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MATERIAL/PRODUCT SAFETY DATA SHEET - According to EC 1907/2006 (REACH)

The Netherlands, Date last verification 2017-05-29

SECTION 1: Identification of the substance/mixture and of the company/undertaking**I.1. Product identifier**

Manufacturers name Sarl Abiotec - 18/22 Av Edouard Herriot - Parc Technologique - 92350 LE PLESSIS ROBINSONS
 E-Mail info@abiotec.fr
 Tradename TL-D colored 18W green 1SL/25

I.2. Relevant identified uses of the substance or mixture and uses advised against

General description LAMP
 Use Various
 Uses advised against Data not available.

I.3. Details of the supplier of the safety data sheet

Supplier safety data sheet Sarl Abiotec - 18/22 Av Edouard Herriot - Parc Technologique - 92350 LE PLESSIS ROBINSONS
 Responsible department info@abiotec.fr

I.4. Emergency telephone number

Emergency telephone number 0033 (0)1 46 45 19 19

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture (EC) No 1272/2008** Not classified according to GHS classificatio**2.2. Label elements** (EC) No 1272/2008**Label** not applicable**Remarks on labelling** none**2.3. Other hazards** If applicable: see section 6.1 and section 7.1.**SECTION 3: Composition/information on ingredients**

Component	CAS No. EC-no.	Index No. Registration no.	Percentage(%)	Label
GLASS	65997-17-3			
	266-046-0	01-2119488048-29 01-2119990048-30		
MERCURY	7439-97-6	080-001-00-0		GHS06 GHS08 GHS09 H330 Acute tox. 2 H360D Repr. 1B H372 STOT RE 1 H400 Aquatic acute 1 H410 Aquatic chronic 1
	231-106-7	01-2119548380-42		
TUNGSTEN	7440-33-7			
	231-143-9	01-2119488910-30		
METALS				
FILLING GAS				GHS04 H280 Press. gas-compressed EUHP99 Asphixiant

SECTION 4: First aid measures**4.1. Description of first aid measures**

Skin	Not applicable.
Ingestion	Not applicable.
Inhalation	Not applicable.
Eyes	Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Skin	local	Not applicable.
	general	Not applicable.
Ingestion	local	Not applicable.
	general	Not applicable.
Inhalation	local	Not applicable.
	general	Not applicable.
Eyes	ocal	Not applicable.
Remarks symptoms	None	

4.3. Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable fire-extinguisher** determined by surrounding**Unsuitable fire-extinguisher** not traceable**5.2. Special hazards arising from the substance or mixture****Hazardous decomposition products in fire** : mercury oxides, metal oxide, tungsten oxides**5.3. Advice for firefighters**

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Precautions** Use protective equipment. See section 8.**Emergency procedure** Is not to be expected.**6.2. Environmental precautions**

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill in accordance with local and national legislation.

6.3. Methods and material for containment and cleaning up**Spillage procedure** Not applicable if lamp is in original state. If lamp is broken: clear up using special mercury vacuum cleaner or other appropriate agent for preventing vaporisation. Take standard measures for clearing up broken glass and deposit in a lockable container.**6.4. Reference to other sections** See section 8 for appropriate personal protection.
See section 13 for additional information on waste treatment.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Observe label precautions.

Local exhausting

Under normal circumstances not applicable.

Storage code (on behalf of PGS 15)

CT3

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

See also any precautionary statements in section 2.2.

No special precautions.

7.3. Specific end use(s)

Data not available.

SECTION 8: Exposure controls/personal protection**Exposure limits :****applicable to:****The Netherlands (20 °C; 1013 mbar)**

No TWA has been laid down. GLASS

TWA(8 hours) 0.02 mg/m³

MERCURY (Statutory threshold limit value)

No TWA has been laid down.

TUNGSTEN

No TWA has been laid down.

METALS

No TWA has been laid down.

FILLING GAS

applicable to:**Belgium (20 °C; 1013 mbar)**TWA(8 hours) 0.02 mg/m³

MERCURY

TWA(8 hours) 5 mg/m³

TUNGSTEN

TWA(15 minutes) 10 mg/m³

TUNGSTEN

applicable to:**Germany (20 °C; 1013 mbar)**TWA(8 hours) 0.02 mg/m³ **S**

MERCURY

TWA(15 minutes) 0.16 mg/m³ **S**

MERCURY

TWA(8 hours) 5 mg/m³

TUNGSTEN (as inhalable dust)

applicable to:**United States of America (25 °C; 1013 mbar)**TWA(8 hours) 0.025 mg/m³ **S**

MERCURY [according to ACGIH]

TWA(8 hours) 0.1 mg/m³ **C**

MERCURY [according to OSHA]

TWA(8 hours) 5 mg/m³

TUNGSTEN

TWA(15 minutes) 10 mg/m³

TUNGSTEN

applicable to:**Sweden (20 °C; 1013 mbar)**TWA(8 hours) 0.02 mg/m³

MERCURY (as inhalable dust)

TWA(8 hours) 5 mg/m³

TUNGSTEN (as dust)

applicable to:**Switzerland (20 °C; 1013 mbar)**TWA(8 hours) 0.05 mg/m³

MERCURY (fume)

TWA(15 minutes) 0.4 mg/m³

MERCURY (fume)

applicable to:**China (20 °C; 1013 mbar)**TWA(8 hours) 0.02 mg/m³ **S**

MERCURY

TWA(15 minutes) 0.04 mg/m³ **S**

MERCURY

TWA(8 hours) 5 mg/m³

TUNGSTEN

TWA(15 minutes) 10 mg/m³

TUNGSTEN

applicable to:**European Union (20 °C; 1013 mbar)**TWA(8 hours): 0.02 mg/m³

MERCURY

C=Ceiling; **S**=Skin**Remarks exposure limits**

none

DNEL (Derived No Effect Level)

Worker - Inhalation - Long term exposure - Systemic effects: 0.02 mg/m ³	MERCURY	Source : Chemicalcards
Worker - Inhalation - Long term exposure - Systemic effects: 5.8 mg/m ³	TUNGSTEN	Source : ECHA
Worker - Dermal - Long term exposure - Systemic effects: 1.7 mg/kg bw/day	TUNGSTEN	Source : ECHA
Consumer - Inhalation - Long term exposure - Systemic effects: 1.7 mg/m ³	TUNGSTEN	Source : ECHA
Consumer - Dermal - Long term exposure - Systemic effects: 0.480 mg/kg bw/day	TUNGSTEN	Source : ECHA
Consumer - Oral - Long term exposure - Systemic effects: 0.480 mg/kg bw/day	TUNGSTEN	Source : ECHA

PNEC (Predicted No Effect Concentration)

Fresh water	0.000057 mg/l	MERCURY	Source : Chemicalcards
Marine water	0.000067 mg/l	MERCURY	Source : Chemicalcards
Fresh water	0.338 mg/l	TUNGSTEN	Source : ECHA
Marine water	0.0338 mg/l	TUNGSTEN	Source : ECHA
Intermittent releases	0.310 mg/l	TUNGSTEN	Source : ECHA
Sewage Treatment Plant (STP)	5.86 mg/l	TUNGSTEN	Source : ECHA
Fresh water sediment	960 mg/kg	TUNGSTEN	Source : ECHA
Marine water sediment	96 mg/kg	TUNGSTEN	Source : ECHA
Soil	2.17 mg/kg	TUNGSTEN	Source : ECHA
Oral (food)	11 mg/kg	TUNGSTEN	Source : ECHA

8.2. Exposure controls

Advised personal protection	
Hands	not applicable
Breakthrough time	not applicable
Eyes	not applicable
Inhalation	not applicable
Skin	none (when used normally)

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	article
Colour	type dependent
Odour	odourless
Odour threshold (20°C; 1013 mbar)	not traceable
pH	not applicable
Melting point/range	not traceable
Boiling point/range	not traceable
Flash point/range	not applicable
Vapor rate/range	not applicable
Flammability (solid, gas)	data not available
Explosive limits	not applicable
Vapour pressure	not applicable
Density	not traceable

Solubility in water	not applicable		
Log Po/w	4.5	MERCURY	Source: Chemicalcards
Autoignition temperature	not applicable		
Decomposition temperature	not traceable		
Viscosity	not applicable		
Dust explosions possible in air	not applicable		
Oxidising properties	no		

9.2. Other information

Solubility in fat	not applicable
Electrostatic charge	not traceable

SECTION 10: Stability and reactivity

10.1. Reactivity See section 10.2 - 10.6.

10.2. Chemical stability The substance or mixture is stable under normal conditions.
See also section 10.4.

10.3. Possibility of hazardous reactions

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Reactions with water	no
Other hazardous conditions	Data not available.

10.4. Conditions to avoid Data not available.

10.5. Incompatible materials Hazardous reactions with : none

10.6. Hazardous decomposition products

Hazardous decomposition products at heating
none

SECTION 11: Toxicological information**Symptoms**

Skin	local	not applicable
	general	not applicable
Ingestion	local	not applicable
	general	not applicable
Inhalation	local	not applicable
	general	not applicable
Eyes	local	not applicable
		not applicable
Remarks symptoms		none
Toxicity		not traceable
Ames test		not traceable

SECTION 12: Ecotoxicological information

Table with 4 columns: Property (Biological oxygen demand, Chemical oxygen demand, etc.), Unit, and Value. Includes remarks on ecotoxicity.

SECTION 13: Disposal considerations

6 a] dgzhZci 'ab ehXdcivc' hdb Z' Vb dj ci 'd['b ZgXj #6 aY redhVadei dchh] dj a' VZ' ZkVj VZY' l' ^] 'gZheZX' id' i] Z' gZfj gZb Zcihd['i] Z' gZ' zkVci 'adXVaVcY' cM' dcVaaZ' ^M' dc#Z[dgZ' Y' redhc' \d['l' Vi Z' 'ab ehX] ZX' 'l' ^] 'hi VZ' Xdj cigri' VcY' \$g adXVad[[XVh' dgXj gZci 'j' YZacZh' VcY' gZ' j' a' dch#

SECTION 14: Transport information

Table with 3 columns: Regulation (ADR/RID, IMO, IATA/ICAO), Description, and Classification/Code.

SECTION 15: Regulatory information

Table with 2 columns: Regulatory reference (e.g., 8"AWZa) and Code (cdi 'VeedXWVZ, cdcZ).

SECTION 16: Other information

Remarks on MSDS Working of this product may release toxic dust.
Toxic mercury vapours can be released if the lamp is broken.
These lamps emit Ultraviolet Radiation (UV-A). Avoid prolonged exposure.
For transport exemption consult applicable regulations.
The product contains ≤ 10 mg mercury.

Inner company references none

Overview relevant R-sentences from all components in section 3

R26	Very toxic on inhalation.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R99	Suffocating in high concentrations.