

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

## 1 Identification of substance

- **Product details**

- **Trade name:** Arcuplat Leitsilberlack
- **Application of the substance / the preparation** Coating material

- **Manufacturer/Supplier:**

Wieland Dental + Technik GmbH & Co.KG  
Schwenninger Str. 13  
75179 Pforzheim  
Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959

- **Information department:**

Abteilung Umweltschutz  
Marcus.Mueller@wieland-dental.de

- **Emergency information:**

+49 (07231)-37050

( Be kindly advised that this number can only be contacted at usual office hours.)

## 2 Composition/Data on components

- **Chemical characterization**

- **Description:** Lacquer on the basis of the following fillers, resins and other components.

- **Dangerous components:**

1569-02-4	1-ethoxypropan-2-ol	25-50%
64-17-5	ethanol	10-25%
67-64-1	acetone	5-10%
141-78-6	ethyl acetate	1-5%
84-74-2	dibutyl phthalate	≤ 1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:**



Highly flammable

- **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

Highly flammable.

Vapours may cause drowsiness and dizziness

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 3

Reactivity = 0

(Contd. on page 2)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

Trade name: Arcuplat Leitsilberlack

(Contd. of page 1)

## · WHMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

## 4 First aid measures

### · General information:

Take affected persons out of danger area and lay down.  
Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

### · After swallowing:

Rinse out mouth and then drink plenty of water.  
Call a doctor immediately.

## 5 Fire fighting measures

### · Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

### · Protective equipment:

Do not inhale explosion gases or combustion gases.  
Mount respiratory protective device.

### · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Use large quantities of foam as it is partially destroyed by the product.

## 6 Accidental release measures

### · Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources  
Ensure adequate ventilation

### · Measures for environmental protection:

Prevent seepage into sewage system, workpits and cellars.  
Do not allow to enter sewers/ surface or ground water.

### · Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

### · Handling:

· **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.

### · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

(Contd. on page 3)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

Trade name: Arcuplat Leitsilberlack

(Contd. of page 2)

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 64-17-5 ethanol

PEL	1900 mg/m <sup>3</sup> , 1000 ppm
REL	1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

### 67-64-1 acetone

PEL	2400 mg/m <sup>3</sup> , 1000 ppm
REL	590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm BEI

### 141-78-6 ethyl acetate

PEL	1400 mg/m <sup>3</sup> , 400 ppm
REL	1400 mg/m <sup>3</sup> , 400 ppm
TLV	1440 mg/m <sup>3</sup> , 400 ppm

### 84-74-2 dibutyl phthalate

PEL	5 mg/m <sup>3</sup>
REL	5 mg/m <sup>3</sup>
TLV	5 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

(Contd. on page 4)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

Trade name: Arcuplat Leitsilberlack

(Contd. of page 3)

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Suspension
<b>Color:</b>	Grey
<b>Odor:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** 12°C (54°F) (DIN 51755 Part 1)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### · Explosion limits:

<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	19 Vol %

· **Density at 20°C (68°F):** ca. 1.7 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

**Water:** Soluble.

### · Viscosity:

**Kinematic at 23°C (73°F):** 411 mm<sup>2</sup>/s

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with oxidizing agents.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

#### 84-74-2 dibutyl phthalate

Oral	LD50	8000 mg/kg (Ratte)
Dermal	LD50	20000 mg/kg (rbt)

### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

### · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

(Contd. on page 5)

USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

**Trade name:** Arcuplat Leitsilberlack

(Contd. of page 4)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Contact manufacturer for recycling information.  
Must be specially treated adhering to official regulations.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
Packaging can be reused or recycled after cleaning.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** Alcohol

## 14 Transport information

### · DOT regulations:



- **Hazard class:** 3
- **Identification number:** UN1263
- **Packing group:** III
- **Proper shipping name (technical name):** PAINT
- **Label:** 3

### · Land transport ADR/RID (cross-border):

- **ADR/RID class:** 3 (F1) Flammable liquids
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** III
- **Description of goods:** 1263 PAINT

### · Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Propper shipping name:** PAINT

### · Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263

(Contd. on page 6)

USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

Trade name: Arcuplat Leitsilberlack

(Contd. of page 5)

· Label	3
· Packaging group:	III
· Propper shipping name:	PAINT

## 15 Regulations

### · Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

#### · Section 313 (Specific toxic chemical listings):

7440-22-4 silver

84-74-2 dibutyl phthalate

#### · TSCA (Toxic Substances Control Act):

7440-22-4 silver

64-17-5 ethanol

67-64-1 acetone

141-78-6 ethyl acetate

84-74-2 dibutyl phthalate

#### · Proposition 65

##### · Chemicals known to cause cancer:

None of the ingredients is listed.

##### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

##### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

##### · Chemicals known to cause developmental toxicity:

64-17-5 ethanol

#### · Cancerogenity categories

##### · EPA (Environmental Protection Agency)

7440-22-4 silver

D

67-64-1 acetone

I

84-74-2 dibutyl phthalate

D

##### · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

##### · NTP (National Toxicology Program)

None of the ingredients is listed.

##### · TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

67-64-1 acetone

A4

##### · MAK (German Maximum Workplace Concentration)

64-17-5 ethanol

5

##### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

##### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Contd. on page 7)

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 04/14/2010

Reviewed on 04/14/2010

**Trade name: Arcuplat Leitsilberlack**

(Contd. of page 6)

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Highly flammable

· **Risk phrases:**

Highly flammable.

Vapours may cause drowsiness and dizziness

· **Safety phrases:**

Keep container tightly closed and in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Take precautionary measures against static discharges.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

This material and its container must be disposed of as hazardous waste.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	0.4

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Abteilung Umweltschutz

· **Contact:** Herr Marcus Müller

· **\* Data compared to the previous version altered.**

USA