

## Material Safety Data Sheet

### According to decree (EC) No. 1907/2006

#### 1. Product- and Company Identification

<u>Product name:</u>	DC Copalvarnish, art.No. 702215
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mbH Carl-Zeiss-Str.2 <b>D-22946 Trittau, Germany</b>
<u>Contact:</u>	Tel.: ++49 (0)4154/8437 0 Fax: ++49 (0)4154/8437 33

#### 2. Hazard Identification

<u>Hazard-denotation:</u>	
Xi	Irritant
F	Highly flammable
<u>Special hazard for human and environment:</u>	
R36	Irritating to eyes.
R11	highly flammable
<u>Additional hazard advices for human and environment:</u>	
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

#### 3. Composition/Information on Ingredients

<b>Hazardous Ingredients:</b>				
<u>Description:</u>	<u>CAS-Nr:</u>	<u>Index-No.:</u>	<u>EG-No.:</u>	<u>Percentage %</u>
Ethyl acetate	141-78-6	607-022-00-5	205-500-4	0 – 80
Nitrocellulose	9004-70-0	603-037-01-3		0 – 20
Ethanol	64-17-5	603-002-00-5	200-578-6	0 - 5

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#### 4. First-Aid-Measures

<u>General advices:</u>	Consult a doctor. Show the medicating doctor this material safety data sheet.
<u>After inhalation:</u>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a doctor.
<u>After skin contact:</u>	Wash off with plenty of soap and water. Consult a doctor.
<u>After eye contact:</u>	Rinse thoroughly with plenty of water for at least 15 minutes with plenty of water and consult a doctor.
<u>After swallowing:</u>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

#### 5. Fire-fighting-measures

<u>Suitable extinguishing agents:</u>	The fire is only erasable with water (cause of the nitrocellulose, that would still burn also without oxygen – contains Cellulose).
<u>Special protective equipment for fire-fighting:</u>	In case of fire, if necessary, use self-contained breathing apparatus.
<u>Further information:</u>	Use water spray to cool unopened containers.

#### 6. Accidental Release Measures

<u>Personal precautions:</u>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
<u>Environmental precautions:</u>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<u>Methods and materials for containment and cleaning up:</u>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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#### 7. Handling and storage

**Handling:**
Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage:**
Conditions for safe storage:

Keep container in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 8. Exposure Controls / Personal Protection

**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Ethyl Acetate	141-78-6	AGW	400 ppm 11500 mg	2006-01-01	TRGS 900 - workplace control parameters

Remarks: Senates commission for inspection of unhealthy working substances of DFG (MAK-Commission).

A risk of «fruit damage» must not be suspected if workplace control parameters and the biological limit value (BGW) are observed.

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#### Personal protective equipment:

##### Respiratory-protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection:

The protection gloves has to correspond to the specifications of the EC-guideline 89/686/EWG and comply to the rule EN 374 which is due to it.

##### Eye protection:

Face shield and safety glasses.

##### Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

##### Hygiene measures:

The general preventive measures while working with chemicals are to be attended. Wash hands before breaks and at the end of workday.

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

#### 9. Physical and Chemical Properties

<u>Form:</u>	liquid
<u>Colour:</u>	Clear
<u>Odour:</u>	after Ethyl acetate
<u>Flashpoint:</u>	<5° C
<u>pH-value:</u>	No data available.
<u>*Melting point:</u>	Ca. -84%
<u>*Ignition temperature:</u>	Ca. 427° C
<u>*Boiling point:</u>	Ca. 76,5 – 77,5° C
<u>*Lower explosion limit:</u>	Ca. 2,2% (V)
<u>*Upper explosion limit</u>	Ca. 11,5%
<u>*Vapour pressure</u>	Ca. 97,3 hPa at 20,0° C
<u>*Solubility in water:</u>	soluble

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\*Partition coefficient n-  
Octanol/ water      Log Pow: ca. 0,73

\* This information were adopted from the main component (Ethyl acetate).

#### 10. Stability and Reactivity

<u>Chemical stability:</u>	Stable under recommended storage conditions.
<u>Conditions to avoid:</u>	Heat, flames and sparks.
<u>Materials to avoid:</u>	Strong oxidizing agents
<u>Hazardous decomposition products:</u>	Hazardous decomposition products formed under fire conditions. – Carbon oxides.

#### 11. Toxicological Information

<u>Acute toxicity:</u>	LD50 Oral – Rat – 5620 mg/kg LC50 Inhalation – Mouse – 2 h – 45.000 mg/m3 LD50 Dermal – Rabbit - >180.000 mg/kg
<u>Skin corrosion/irritation:</u>	No data available
<u>Serious eye damage/eye irritation:</u>	No data available
<u>Respiratory or skin sensitization:</u>	No data available
<u>Germ cell mutagenicity:</u>	No data available
<u>Carcinogenicity:</u>	This product is or contains a component that is not classifiable as to ist carcinogenicity based on ist IARC, ACGIH, NTP or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<u>Reproductive toxicity:</u>	No data available.
<u>Specific target organ toxicity – single exposure (GHS)</u>	May cause damage to organs.
<u>Specific target organ toxicity – repeated exposure (GHS)</u>	No data available.
<u>Aspiration hazard:</u>	No data available

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#### Potential health effects:

<u>Inhalation:</u>	May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
<u>Ingestion:</u>	May be harmful if swallowed.
<u>Skin:</u>	May be harmful if absorbed through skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
<u>Eyes:</u>	Causes eye irritation.
<u>Signs and symptoms of exposure:</u>	Central nervous system depression, Drowsiness, narcosis, anemia
<u>Additional information:</u>	RTECS: AH5425000

#### 12. Ecological Information

##### Toxicity to fish:

LC50 – Oncorhynchus mykiss (rainbow trout) 350,00 – 600,00 mg/l – 96 h

LC50 – Pimephales promelas (fathead minnow) 220,00 – 250,00 mg/l – 96 h

##### Toxicity to daphnia and other aquatic invertebrates:

EC50 – Daphnia magna (Water flea) 2.300,00 – 3.090,00 mg/l – 24h

LC50 – Daphnia magna (Water flea) 560 mg/l – 46 h

##### Toxicity to algae:

EC50 – No information available 4.300,00 mg/l – 24 h

EC50 – Selenastrum 1.800,00 – 3.200,00 mg/l – 72 h

##### Persistence and degradability:

No data available

##### Mobility in soil:

No data available

##### Bioaccumulation potencial:

No data available

##### Effect of the determination of the PTB- and vPvB-Report:

Endocrine disruption potential.

If the material causes hormonal effects or prevents them is unknown to us.

##### Other adverse effects:

No data available

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#### 13. Disposal Considerations

<u>Waste from residues:</u>	In accordance with local, state and federal regulations the product can be given to a waste disposal site or waste incineration plant.
<u>Waste key no.:</u>	31446 (waste of silicic acid with harmful contamination, mainly organic)

#### 14. Transport Information / Rules

##### Landtransport ADR/RID:



ADR/RID-GGVS/E class:	3 (F1) flammable liquid substances
Kemler-Number:	33
UN-Number:	1173
Packaging group:	II
Hazard Label:	3
Description of the good:	1173 ETHYL ACETATE

##### Maritime transport IMDG, GGVSea:



IMDG/GGVSea-Class:	3
UN-Number:	1173
Label:	3
Packaging group:	II
EMS-Number:	F-E, S-D
Marine pollutant:	No
Correct technical name:	ETHYL ACETATE

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



ICAO/IATA-Class:	3
UN/ID-Number:	1173
Label:	3
Packaging group:	II
Correct technical name:	ETHYL ACETATE

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#### 15. Regulatory Information

##### Labelling according ECC-guidelines:

The product is classified and designated according to EC-guidelines/GefStoffV.

##### Code letter and hazard description of the product:



Xi irritant



F inflammable

##### R-phrases:

- R11 Highly flammable
- R36 Irritating to eyes
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

##### S-phrases:

- S2 Keep out of the reach of children.
- S16 Keep away from sources of ignition – No smoking.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S33 Take precautionary measures against static discharges.

##### Water hazard class:

WGK 1: slight water hazard (Estimation on the basis of the ingredients)

#### 16. Further Information

##### Further applicable EG Guidelines:

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.  
Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.  
REACH-Guideline (EC) No. 1907/2006

##### Manufacturer's suggested application restriction:

Only for commercial use – no public product

##### R-phrases on which is referred in chapter 2 and 3:

- R11 Highly flammable
- R36 Irritatin to eyes
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

##### Changes compared to the last version:

Adjustment to REACH

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Additional Information:

Origin: <sup>1</sup> <http://www.baua.de>

<sup>2</sup> <http://www.arbeitssicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself. The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

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