

Material Safety Data Sheet
according decree (EG) No. 1272 / 2008

Revision: 2
Revision Date: 26.04.2019 SW

1. Product- and Company identification

Product name:

Secura Varnish

Application of the product:

Fixing of restauration materials

Sealing of glas-ionomer-cements

Sealing of dentin before applying inlays, crowns and bridges

Manufacturer:

Willmann + Pein GmbH

Street:

Schusterring 35

Zip-Code / Town

D-25355 Barmstedt

Contact for technical information

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Emergency information (24 hours)

Dr. Wolfgang Willmann

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2. Hazard identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008:

- **Eye Irrit. 2** causes serious eye irritation
- **Flam. Liq. 2** liquid and vapor easily flammable

2.2 Label elements

Labelling according to Regulation 1272/2008 (GHS/CLP)



Warning



Danger

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H319	causes serious eye irritation
P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
H225	liquid and vapor easily flammable
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P370+P378	In case of fire: Use ... to extinguish
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to...

Additional hazard advices for human and environment:

EUHO66 Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

3. Composition/Information on ingredients**Chemical characterization:****Hazardous ingredients:**

Ingredients	Cas-No.	Index-No.	EG-No.	Percentage (%)
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

4. First-Aid-Measures**General advices**

Consult a doctor. Show the medicating doctor this material safety data sheet.

After inhalation

If breathed in, move person into fresh air. If not breathing give artificial respiration.

Consult a doctor.

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After skin contact

Wash off with plenty of soap and water. Consult a doctor.

After eye contact

Rinse thoroughly with plenty of water for at least 15 minutes with plenty of water and consult a doctor.

After swallowing

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Rinse mouth with water. Consult a doctor.

5. Fire-Fighting-Measures**Suitable extinguishing agents**

The fire is only erasable with water (cause of the nitrocellulose, that would still burn also without oxygen – contains Cellulose).

Special protective equipment for fire-fighting

In case of fire, if necessary, use self-contained breathing apparatus.

Further information

Use water spray to cool unopened containers.

6. Accidental release measures**Personal precautions**

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

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).

7. Handling and storage**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.

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**

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Components	CAS-No.	Value	Control parameters	Update	Basis
Ethyl Acetate	141-78-6	AGW	400 ppm 1.500 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.					

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

General information

Form	liquid
Colour	clear
Odour	after Ethyl acetate

Safety data

Flash point	<5°C
*Ph	no data available
*Melting point	ca. -84°C
*Ignition temperature	ca. 427°C
*Boiling point	ca. 76,5 – 77,5°C
*Lower explosion limit	ca. 2,2 % (V)
*Upper explosion limit	ca. 11,5 %

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*Vapour pressure	ca. 97,3 hPa at 20,0°C
*Water solubility	soluble
*Partition coefficient n-Octanol/water	log Pow: ca. 0,73

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

10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon oxides.

11. Toxicological information

Acute toxicity:

LD50 Oral – Rat – 5620 mg/kg

LC50 Inhalation – Mouse – 2 h – 45.000 mg/m³

LD50 Dermal – Rabbit - >180.000 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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.

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Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure (GHS)

May cause damage to organs.

Specific target organ toxicity – repeated exposure (GHS)

No data available.

Aspiration hazard

No data available

Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Vapours may cause drowsiness and dizziness.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.
Repeated exposure may cause skin dryness or cracking.

Eyes: Causes eye irritation.

Signs and symptoms of exposure

Central nervous system depression, Drowsiness, narcosis, anemia

Additional information

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:

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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

13. Disposal considerations

Product:

Recommendation:

May not be disposed together with household garbage. Do not drain into canalisation.
 To dispose of accordingly with notice of the local regulations of authority.

Disposal key

(see at disposal key for methacrylate-containing dental products)

16 03 05 organic waste, which contains hazard substances

Contaminated packaging:

Recommendation:

Dispose of as unused product

14. Transport information

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

15. Regulatory information

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Vapours may cause drowsiness and dizziness.

Water hazard class:

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

16. Other 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

H-phrases on which is referred in chapter 2 and 3

225 Highly flammable
319 Irritant to eyes
EUHO66 Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

Changes compared to the last version

Adjustment to REACH

Department issuing MSDS:

Dr. Wolfgang Willmann (Phone: +49 (0) 41 23 – 9228 0)

Additional Information:

Origin: ¹ <http://www.baua.de>

² <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.

Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond

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