

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 79760 Violin Varnish - Recipe of 1710

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Version: 1

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Violin Varnish - Recipe of 1710

*Article No.:* 79760

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Paint-related material.*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

H225 Flammable liquids, hazard category 2  
Cat.: 2  
H319 Eye irritation, hazard category 2  
Cat.: 2  
Highly flammable liquid and vapour.

H319 Causes serious eye irritation.  
Cat.: 2

*Possible Environmental Effects:*

See Section 12.

#### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*Hazard designation:*



GHS02-2



GHS07

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### Signal word:

Danger

### Hazard designation:

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

### Safety designation:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.  
P403+P235 Store in a well ventilated place. Keep cool.

### Hazardous components for labelling:

#### 2.3. Other Hazards

No information available.

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### 3. Composition/Information on Ingredients

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Violin varnish: with shellac, sandarac and amber.

### Information on Components / Hazardous Ingredients:

Ethanol (H225-319); REACH Reg. No. 01-2119457610-43	50-65 %	CAS-Nr: 64-17-5 EINECS-Nr: 200-578-6 EC-Nr: 603-002-00-5
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### Additional information:

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

##### General information:

Take person away from hazardous area.  
Remove contaminated clothes immediately.

##### After inhalation:

Supply fresh air. If required give artificial respiration. Keep patient warm.  
Give artificial respiration in case breathing is not regular or if it has stopped.  
In case of unconsciousness place patient stable in side position for transportation.  
If breathing is difficult call a physician.

##### After skin contact:

Remove contaminated clothing.  
Wash off with plenty of water. Consult a physician if irritation persists.

##### After eye contact:

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*Rinse open eyes with plenty of water for at least 15 minutes.  
Consult a physician immediately.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.  
Do not induce vomiting. Consult physician immediately.  
In case of spontaneous vomiting, bring unconsciousness person in  
a stable side position.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Depending on the absorbed concentrations different states of  
intoxication is reached after an euphoric stage. Further symptoms  
are loss of self-control, dizziness, vomiting.*

*Effects:*

*Can cause liver damage.  
Causes depression of the central nervous system.  
Prolonged/repeated contact may cause skin irritation and/or  
dermatitis.*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Unsuitable extinguishing media:*

*Never apply a strong water jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Flammable liquid.  
Fumes can form an explosive mixture with air.  
In case of fire: formation of carbon monoxide and dioxide.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full  
protective gear.*

*Further information:*

*Cool exposed containers with water mist.  
Collect contaminated extinguishing water and debris separately;  
avoid contamination of sewage system.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.  
Provide adequate ventilation. Keep away from sources of ignition.*

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*Avoid contact with skin and eyes. Do not ingest or inhale.  
Do not inhale aerosol/fumes/vapors.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Do not discharge into drains, surface or ground water in concentrated form.  
Contact local authorities if product pollutes soil or vegetation.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Keep containers tightly closed.  
Provide adequate ventilation, also in floor area (vapors are heavier than air).*

*Hygienic measures:*

*Take off contaminated clothing immediately.  
Do not inhale gas/fumes/vapours/aerosols.  
Avoid contact with eyes and skin.  
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and well ventilated location.  
Floor must be solvent resistant and leakproof.*

*Requirements for storage areas and containers:*

*Store in a room with a solvent-proof floor.*

*Information on fire and explosion protection:*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.  
Combustible liquid.  
Vapors may form an explosive mixture with air.  
Cool exposed containers with water.  
Use only in explosion protective area. Extinguish any naked flames. No not smoke. Remove ignition sources. Avoid sparks.  
Ensure electrical continuity by bonding and grounding (earthing) all equipment.*

*Storage class:*

*3; Flammable liquids (TRGS 510)*

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*Further Information:*

*The product is slightly hazardous to water. Consider national regulations regarding handling and storage.*

**7.3. Specific End Use(s)**

*Further information:*

*No information available.*

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**8. Exposure Controls/Personal Protection**

**8.1. Parameters to be Controlled**

*Parameters to be controlled (DE):*

*TRGS 900*

*Ethanol (CAS 64-17-5): 1920 mg/m<sup>3</sup>, 1000 ppm (STEL); 960 mg/m<sup>3</sup>, 500 ppm (TWA)*

*Parameters to be controlled:*

*Ethanol (64-17-5): TWA (AT): 1900 mg/m<sup>3</sup>, 1000 ppm (average value); TWA (CH): 960 mg/m<sup>3</sup>, 500 ppm (average value); 1920 mg/m<sup>3</sup>, 1000 ppm (short-term value)*

*Derived No-Effect Level (DNEL):*

*Ethanol (CAS 64-17-5):*

*1900 mg/m<sup>3</sup> (worker, inhalation, short-term exposure - local effect)*

*343 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)*

*950 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic); (consumer, inhalation; short-term exposure - local)*

*206 mg/kg bw/d (consumer, skin contact, long-term exposure - systemic)*

*114 mg/kg (consumer, inhalation, long-term exposure - systemic)*

*87 mg/kg bw/d (consumer, swallowing, long-term exposure - systemic)*

*Predicted No-Effect Concentration (PNEC):*

*Ethanol (CAS 64-17-5):*

*Fresh water: 0.96 mg/l*

*Seawater: 0.79 mg/l*

*Fresh water sediment: 3.6 mg/kg*

*Seawater sediment: 2.9 mg/kg*

*Sporadic release: 2.75 mg/l*

*Sewage treatment system (STP): 580 mg/l*

*Soil: 0.63 mg/kg dwt*

*Additional Information:*

**8.2. Exposure Controls**

*Technical protective measures:*

*Adequate ventilation to control airborne concentrations below the exposure limits.*

*Personal Protection*

*General protective measures:*

*Remove contaminated clothing immediately.*

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*Avoid contact with skin and avoid inhalation of vapour. Do not eat, drink or smoke while working.*

*Respiratory protection:*

*Required in case of insufficient ventilation (EN 143 or 149).  
Recommended: composite filter A-P2 (EN 141)*

*Hand protection:*

*Solvent resistant protective gloves.  
The manufacturer's directions for use should be observed because of the great diversity of types.*

*Protective glove material:*

*Butyl rubber (480 min, 0.7 mm)  
Nitrile rubber (> 120 min, 0,40 mm)  
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing (flame-proof, antistatic).*

*Environmental precautions:*

*Avoid contamination of sewage system, open water ways and ground water.  
Prevent contamination of open water ways and sewage system.  
Avoid contamination of ground water.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>clear, yellowish</i>
<i>Odor:</i>	<i>alcohol-like</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not determined</i>
<i>Melting temperature:</i>	<i>not determined</i>
<i>Boiling temperature:</i>	<i>not determined</i>
<i>Flash point:</i>	<i>12°C (Ethylalkohol)</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>

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*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not determined*

*Vapor density:*

*No information available.*

*Density:*

*not determined*

*Solubility in water:*

*miscible*

*Coefficient of variation (n-Octanol/Water):*

*no information available*

*Auto-ignition temperature:*

*No information available.*

*Decomposition temperature:*

*Viscosity, dynamic:*

*not determined*

*Explosive properties:*

*Oxidizing properties:*

*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

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### 10. Stability and Reactivity

#### 10.1. Reactivity

*No decomposition if used according to specifications.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*Formation of ignitable vapor-air-mixtures possible.*

#### 10.4. Conditions to Avoid

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### Conditions to avoid:

*Avoid contact with heat, sparks and open fire.*

### Thermal decomposition:

*No further information available.*

### 10.5. Incompatible Materials

*Oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*In case of fire: formation of carbon monoxide and carbon dioxide.*

### 10.7. Further Information

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## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity

##### LD50, oral:

*Ethanol (CAS 64-17-5): 10470 mg/kg (rat; OECD 401)*

##### LD50, dermal:

*Ethanol (CAS 64-17-5): > 2000 mg/kg (rat; OECD 402)*

##### LC50, inhalation:

*Ethanol (64-17-5): > 120 mg/kg (4h, rat)*

#### Primary effects

##### Irritant effect on skin:

*Non irritating*

##### Irritant effect on eyes:

*Causes serious eye irritation.*

##### Inhalation:

*No information available.*

##### Ingestion:

*No information available*

##### Sensitization:

*No sensitizing effects known.*

##### Mutagenicity:

*No mutagenic effects known.*

##### Reproductive toxicity:

*No negative effects known.*

##### Carcinogenicity:

*No cancerogenic effect known.*

##### Teratogenicity:

*No teratogenic effects expected.*

##### Specific target organ toxicity (STOT):

*Single exposure: the substance or mixture is not classified as specific target organ toxicant.*

*Repeated exposure: the substance or mixture is not classified as*  
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*specific target organ toxicant.*

### *Additional toxicological information:*

*The main component is ethyl alcohol.*

*Depending on the absorbed concentrations different states of intoxication is reached after an euphoric stage. Further symptoms are loss of self-control, dizziness, vomiting.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*Ethanol: LC50: 13000 mg/l (96h, Oncorhynchus mykiss)*

*Daphnia toxicity:*

*Ethanol: LC50: 12340 (48h, Daphnia magna)*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*Ethanol: EC50: 12900 mg/l (48h, Algae)*

### 12.2. Persistency and Degradability

*Ethanol: readily biodegradable (98 %, 28d)*

### 12.3. Bioaccumulation

*Ethanol: log Kow -0.35. No bioaccumulation.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*PBT/vPvB assessment not available as chemical safety assessment is not required / not conducted.*

### 12.6. Other Adverse Effects

*Water hazard class:*

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

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Recover or recycle if possible.*

*In accordance with current regulations, product may be taken to an incineration plant.*

*European Waste Code (EWC):*

*The waste code is determined according to the kind of waste and industry stated in the European Waste Catalogue.*

*Uncleaned packaging:*

*This waste is hazardous, only approved packaging are permitted*

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*Completely emptied packaging may be recycled.  
Contaminated packaging must be disposed like the substance.*

Waste Code No.:

### 14. Transport Information

#### 14.1. UN Number

ADR, IMDG, IATA 1170

#### 14.2. UN Proper Shipping Name

ADR/RID: ETHANOL, LÖSUNG

IMDG/IATA: ETHANOL, SOLUTION

#### 14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-E

IATA Class: 3

Hazard no.: 3

#### 14.4. Packaging Group

ADR/RID: II

IMDG: II

IATA: II

#### 14.5. Environmental Hazards

*Labelling according 5.2.1.8 ADR/RID: no*

*Labelling according 5.2.1.6.3 IMDG: no*

*Classification as environmentally hazardous according 2.9.3  
IMDG: no*

#### 14.6. Special Precautions for User

*not applicable*

#### 14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*IMDG: not applicable*

#### 14.8. Further Information

### 15. Regulatory Information

#### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

*1, slightly hazardous for water (German Regulation)*

Local regulations on chemical accidents:

*Seveso-III Directive (2012/18/EU): P5c and E2*

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*Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t*

### *Employment restrictions:*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.*

### *Restriction and prohibition of application:*

#### *Technical instructions on air quality:*

### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

*EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern above the legal limit value (> 0.1 % (w/w) REACH Regulation (EC) 1907/2006, Article 57).*

### 15.3. Further Information

*Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable*  
*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

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### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*