

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the Product

Product Name: Brenn-Polish, high gloss
Article No.: 79780
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
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2. Hazard Identification

Hazard designation:  F Flammable

Risk Phrases: R11 Highly flammable.

3. Composition/Information on Ingredients

Chemical Characterization: Polish made of lemon shellac and ethyl alcohol.
Hazardous Ingredients: Ethanol (F; R11) 70 %
CAS-Nr: 64-17-5 EINECS-Nr: 200-578-6 EC-Nr:

4. First Aid Measures

After inhalation: Remove to fresh air, if necessary give artificial respiration. Keep affected person warm.
Give artificial respiration in case breathing is not regular or if it has stopped.
In case of unconsciousness, store, respectively transport in stable side position.
If breathing is difficult call a physician.

After skin contact: Remove contaminated clothing. Wash off immediately with plenty of water and soap.
In case of complaints consult physician.

After eye contact: Rinse open eyes with plenty of water for at least 15 minutes. Consult physician.

After ingestion: Rinse mouth with water and drink plenty of water.
Do not induce vomiting. Consult physician immediately.

5. Fire-Fighting Measures

Suitable extinguishing media: CO₂, extinguishing powder, water jet.
Fight larger fire with water jet or alcohol resistant foam.

Unsuitable extinguishing media: Never apply a strong water jet.

Protective equipment: Use self-contained breathing apparatus and full protective gear.

Further information: Cool exposed containers with water spray.

6. Accidental Release Measures

Personal precautions: Wear appropriate protective equipment. Keep spectators away.
Provide adequate ventilation. Keep away from sources of ignition.
Avoid contact with skin and eyes. Do not ingest or inhale.

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

Methods of cleaning/absorption: Contain with absorbent material (sand, diatomaceous earth, universal absorbent, Oil Dri) and dispose accordingly.

7. Handling and Storage

Handling

Instructions on safe handling: Keep containers tightly closed.
Provide adequate ventilation, also in floor area (vapors are heavier than air).

Information on fire and explosion protection: Keep away from sources of ignition - do not smoke. Take precautionary measures against static discharges.
Combustible liquids.
Vapors in combination with air can form an explosive compound.
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

Storage conditions: Keep containers tightly closed. Protect against heat and direct sunlight. Store cool and dry. Heat can lead to a pressure increase and risk of bursting.
Store product in a well ventilated area.
Floor must be solvent resistant and leakproof.

Storage class (VCI): 3 A

Storage safety regulation (BetrSichV): Highly flammable.

8. Exposure Controls/Personal Protection

Additional information about design of technical systems: Adequate ventilation to control airborne concentrations below the exposure limits.

Components with workplace control parameters (Germany): Ethanol (CAS 64-17-5)

AGW: 960 mg/m³, 500 ml/m³; 2(II); DFG, Y

Personal protective equipment

General protective measures: Remove contaminated clothing immediately.
Avoid contact with skin and avoid inhalation of vapour. Do not eat, drink or smoke while working.

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Respiratory protection:	Required in case of insufficient ventilation. Shortterm: gas filter A2.
Hand protection::	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; 0.5 mm). Fluoro carbon rubber -FKM (480 min; 0.4 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.
Body protection:	Protective clothing, chemical resistant.

9. Physical and Chemical Properties

Form:	liquid
Color:	clear, yellowish
Odor:	alcohol-like
Melting temperature:	-114.5°C
Boiling temperature:	78.3°C
Flash point:	12°C
Ignition temperature:	425°C
Explosion risk:	Product is not explosive; however, an explosive vapor/air mixture can be formed.
Lower explosion limit:	3.5 Vol%
Upper explosion limit:	15 Vol%
Vapor pressure:	59 hPa (20°C)
Density:	0.789 g/cm ³ (20°C)
Solubility in water:	insoluble
Viscosity dynamic:	1.2 mPas (20°C)
Coefficient of variation (n-Octanol/Water):	-0.31 logPOW
Further information:	The data is based on those of ethyl alcohol.

10. Stability and Reactivity

Thermal decomposition/Conditions to be avoided:	No decomposition if used according to specifications. Can be distilled at normal pressure without undergoing decomposition.
Substances to be avoided:	Oxidizing agents. Sulfuric acid, nitric acid.
Hazardous reactions:	Unknown.
Hazardous decomposition products:	None known.

11. Toxicological Information

Acute toxicity

LD50, oral:	> 2000 mg/kg (rat)
LD50, dermal:	> 2000 mg/kg (rabbit)
LD50, inhalation:	> 20 mg/l (4h; rat)

Primary effects

Irritant effect on skin:	Non irritating (rabbit)
Irritant effect on eyes:	Slight irritant effect (rabbit).
Sensitization:	No sensitizing effect (guinea pig).
Gentotoxicity in vitro:	Ames-Test: not mutagenic (OECD TG 406, lit.).

Further toxicological effects:

Ethanol is a nerve and cell poison which, depending on its concentration, can have a toxic effect on the complete organism due to its good solubility in water and fats.

Due to its good lipid solubility it has a strong effect on the central nervous system. Ethanol is easily absorbed by the mucous membrane, not so much by the outer skin.

Elimination is carried out by oxidative degradation, as well as by breathing out and through the kidneys. The mucous membrane is damaged with concentrations greater than 60% due to dehydration.

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

The symptoms are increased by the presence of solvents, amines, aromatic nitric compounds and a number of drugs.

The data is based on those of ethyl alcohol.

12. Ecological Information

Elimination (Persistency and Degradability): Readily biodegradable (> 70 %, 5d; OECD 301D).

Ecological effects

Aquatic toxicity:	:
- Fish toxicity:	LC50: > 100 mg/l (96h, <i>Leuciscus idus</i>)
- Daphnia toxicity:	EC50: > 100 mg/l (24h, <i>Daphnia magna</i>) (OECD 202)
- Algae toxicity:	EC50: > 100 mg/l (<i>Chlorella pyrenoidosa</i>)

Further ecological effects: The data is based on those of ethyl alcohol.

Further information

Water hazard class: 1
Do not let product contaminate ground water, waterways or sewage system.

13. Disposal Considerations

Product:	In accordance with current regulations, product may be taken to an incineration plant. If possible reuse product.
Uncleaned packaging:	Dispose of according to official local regulations.

Uncleaned packaging: Dispose according to product.

14. Transport Information

Road Transportation ADR/RID

Class: 3
Packaging group: II
UN No.: 1263
Classification code: F1
Tunnel No.: D/E
Hazard No.: 3
Correct technical name: PAINT

Sea transportation

IMDG/GGVSee Class: 3
Packaging group: II
UN No.: 1263
EmS No.: F-E,S-D
Hazard No.: 3
Correct technical name: PAINT

Air transportation

ICAO/IATA Class: 3
Packaging group: II
UN No.: 1263
Hazard No.: 3
Correct technical name: PAINT

15. Regulatory Information

Designation according to EC guidelines: The material is subject to classification according to EC lists.

Hazard designation:



F Flammable

Hazardous components for labelling:

Ethanol 99 %, denatured 1% MEK

Risk Phrases:

R11 Highly flammable.

Safety Phrases:

S33 Take precautionary measures against static discharges.
S16 Keep away from sources of ignition - No smoking.
S07 Keep container tightly closed.

Water hazard class:

1, slightly hazardous for water

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.