

Safety Data Sheet

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



98450 Silver Varnish, genuine

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Revised edition: 28.07.2017

Version: 1.0

Printed: 11.09.2019

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

1.1. Product Identifier

Product Name: Silver Varnish, genuine

Article No.: 98450

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

Identified uses:

*Paint, varnish
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)*

*Flammable liquids, hazard category 3
Specific Target Organ Toxicity (single exposure), hazard category 3*

Hazardous to the aquatic environment, acute category 3

H226 Flammable liquid and vapour.

Cat.: 3

H335 May cause respiratory irritation.

Cat.: 3

H336 May cause drowsiness or dizziness.

Cat.: 3

H410 Very toxic to aquatic life with long lasting effects.

Cat.: 1

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

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

Hazard designation:

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GHS02



GHS07



GHS09-1

Signal word:

Warning

Hazard designation:

H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety designation:

P102	Keep out of reach of children.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P302+P352	If on skin: Wash with soap and water.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Solvent naphtha (petroleum), light aromatic (H226-304-335-336-411); REACH Reg. No. 01-2119455851-35	5 - 15 %	CAS-Nr: 64742-95-6 EINECS-Nr: 265-199-0 EC-Nr: 649-356-00-4
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Silber (H410, M-Faktor 1000); REACH Reg. No. 01-2119555669-21	30 - 50 %	CAS-Nr: 7440-22-4 EINECS-Nr: 231-131-3 EC-Nr:
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n-Butylacetate (H226-336); REACH Reg. No. 01-	3 - 7 %	CAS-Nr: 123-86-4
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2119485493-29-xxxx

EINECS-Nr: 204-658-1

EC-Nr: 607-025-00-1

Xylene (H226-304-312-315-319-332-335-373);
REACH No. 02-2119488216-32-xxxx

3 - 7 %

CAS-Nr: 1330-20-7

EINECS-Nr: 215-535-7

EC-Nr: 601-022-00-9

1-Methoxypropane-2-ol (H226-336); REACH Reg.
No. 01-2119457435-35-xxxx

3 - 7 %

CAS-Nr: 107-98-2

EINECS-Nr: 203-539-1

EC-Nr: 603-064-00-3

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air and keep patient calm.

Give artificial respiration in case breathing is not regular or if it has stopped.

Get medical help.

After skin contact:

Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.

Do not use solvents or thinners.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Consult physician.

After ingestion:

Rinse mouth with plenty of water.

Never give anything by mouth to an unconscious person.

Do not induce vomiting. Consult physician immediately.

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

Symptoms:

Drowsiness, dizziness.

Inhalation: irritates the respiratory system, harmful.

Effects:

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

Treatment:

No further information available.

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

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Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*In case of fire: formation of carbon oxides, toxic gases/vapors.
Flammable liquid and vapor.
Fumes can form an explosive mixture with air.*

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

*Cool closed containers exposed to fire with water mist.
Avoid contamination of sewage system, open water ways and ground water.*

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Keep away from sources of ignition. No smoking.
Do not inhale aerosol/fumes/vapors.
Wear protective clothing.*

6.2. Environmental Precautions

Environmental precautions:

*Contact local authorities if product pollutes soil or vegetation.
Prevent contamination of soil, drains and surface waters.*

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Contain with absorbent, inert material (sand, diatomaceous earth, acid absorbent) and dispose accordingly.
Clean polluted area with water or other cleaning fluids.
Do not use solvents for cleaning.*

6.4. Reference to other Sections

*For information for safe handling see Section 7.
Protective clothing, see Section 8.*

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Avoid the formation of ignitable and explosive solvent fumes.
Wear adequate protective clothing (see para. 8).
Avoid contact with eyes and skin.
Provide adequate ventilation, also in floor area (vapors are heavier than air).*

Hygienic measures:

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Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Close opened containers carefully and store upright to avoid product to spill.

Store between 5-40°C.

Protect against heat, ignition sources and direct sunlight.

Keep away from flammable materials.

Requirements for storage areas and containers:

Store the product in the original container.

The floor has to be impermeable, fluid resistant and easy to clean.

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

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)

Further Information:

Do not store together with: strong acids, alkalis and oxidizing agents.

7.3. Specific End Use(s)

Further information:

Paint and paint related material.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6); TWA: 300 mg/m³; 62 ppm (long-term value); 600 mg/m³; 124 ppm (short-term value)

Butyl acetate (CAS 123-86-4) TWA: 300 mg/m³, 62 ppm (long-term value); 600 mg/m³, 124 ppm (short-term value)

1-Methoxy-2-propanol (CAS 107-98-2) TWA: 370 mg/m³, 100 ml/m³ (long-term value); 740 mg/m³, 200 ppm (short-term value)

Xylene (CAS 1330-20-7) TWA: 440 mg/m³, 100 ml/m³ (long-term value); 880 mg/m³, 200 ppm (short-term value)

Ethylbenzene (CAS 100-41-4) TWA: 88 mg/l, 20 ppm (long-term value); 176 mg/m³, 40 ppm (short-term value)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

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n-Butyl acetate (123-86-4):

480 mg/m³ (worker, inhalation, long-term exposition - systemic effects)

102.34 mg/m³ (consumer, inhalation, long-term exposition - systemic)

Predicted No-Effect Concentration (PNEC):

n-Butyl acetate:

Fresh water: 0.18 mg/l

Seawater: 0.018 mg/l

Fresh water sediment: 0.981 mg/kg

Sea water sediment: 0.0981 mg/kg

Soil: 0.0903 mg/kg

Intermittent release: 0.36 mg/l

Sewage treatment system (STP): 35.6 mg/l

Additional Information:

Biological limit value (TRGS 903):

1-Methoxy-2-propanol: 15 mg/l (end of exposure or shift; urine) (TRGS 203, DE)

Xylene: 2000 mg/l (end of exposure or shift; urine)

Ethylbenzene: 300 mg/l creatinine (end of exposure or shift; urine);

BAT: 250 mg/g creatinine (long-term value)

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

When manually applied: gas filter A2 (brown)

When applied by spraying: filter combination A2-P2 (brown-white)

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

Recommended: min. 0.4 mm thickness, breakthrough time > 480 min.

Nitrile rubber

The gloves have to be removed and replaced at the first signs of decomposition or chemical permeability.

Eye protection:

Chemical splash goggles (EN 166).

Body protection:

Protective clothing, antistatic.

Environmental precautions:

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Prevent from getting into the soil, surface water and sewage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>characteristic</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>not applicable</i>
<i>Boiling temperature:</i>	<i>> 35°C not determined</i>
<i>Flash point:</i>	<i>> 23°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>420°C</i>
<i>Upper explosion limit:</i>	<i>1.2 Vol.-%</i>
<i>Lower explosion limit:</i>	<i>7.5 Vol.-%</i>
<i>Vapor pressure:</i>	<i>21 mbar (20°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	
<i>Explosive properties:</i>	<i>not available</i>
<i>Oxidizing properties:</i>	<i>No information available.</i>
<i>Bulk density:</i>	

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9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solvent separation test: < 3 % (w/w)

Solid content:

49 wt.-%

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Exothermic reaction with oxidizing agents, alkalis, acids.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid direct sunlight.

Avoid heat, open fire and other ignition sources.

Thermal decomposition:

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

In case of fire: formation of carbon oxides, gases/vapors, toxic.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

1-Methoxy-2-propanol: 4277 mg/kg (rat)

Butyl acetate: 10760 mg/kg (rat; OECD 423)

Xylene (1330-20-7): > 5627 mg/kg (mouse)

LD50, dermal:

Butyl acetate: > 14112 mg/kg (rat; OECD 402)

Xylene: 1100 mg/kg (ATE)

LC50, inhalation:

Butyl acetate: 23.4 mg/l (4h, Ratte; OECD 403)

Xylene (1330-20-7): 11 mg/l (4h)

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Primary effects

Irritant effect on skin:

Prolonged/repeated contact may cause defatting of the skin which may cause dermatitis.

Irritant effect on eyes:

No irritant effect known.

Inhalation:

No irritant effect known.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No negative effects known.

Carcinogenicity:

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

Harmful for aquatic organisms, with long-term adverse effects.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

Part of the components is not readily biodegradable.

Methods for the evaluation of the biological degradability are not applicable for inorganic substances.

12.3. Bioaccumulation

No bioaccumulation.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Other Adverse Effects

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Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

*Dispose of according to official national and local regulations.
Do not let product enter water systems.*

European Waste Code (EWC):

Uncleaned packaging:

*Dispose of according to official local regulations.
Uncontaminated packaging may be recycled.*

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1263

14.2. UN Proper Shipping Name

ADR/RID: FARBE

IMDG/IATA: PAINT

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: III

IMDG: III

IATA: III

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: fish and tree next page: 11

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*Labelling according 5.2.1.6.3 IMDG: fish and tree
Environmentally hazardous substance, liquid; Marine Pollutant*

14.6. Special Precautions for User

none known

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

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:

2, hazardous for water (German Regulation, Assessment by list)

Local regulations on chemical accidents:

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.

Restriction and prohibition of application:

Technical instructions on air quality:

5.2.5.: Organic substances

15.2. Chemical Safety Assessment

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

15.3. Further Information

none

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.