

Safety Data Sheet

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



98446 Painter's Gold Varnish, liquid

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Revised edition: 14.07.2023

Version: 3

Printed: 16.08.2023

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

1.1. Product Identifier

Product Name: Painter's Gold Varnish, liquid

Article No.: 98446

UFI: --

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

Identified uses:
Solvent based varnish/Alkyd-based glaze.

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, chronic hazard category 3

H226 Flammable liquid and vapour.

Cat.: 3

H335 May cause respiratory irritation.

Cat.: 3

H336 May cause drowsiness or dizziness.

Cat.: 3

H412 Harmful to aquatic life with long lasting effects.

Cat.: 3

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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GHS02-1



GHS07

Signal word:

Warning

Hazard designation:

H226	Flammable liquid and vapour.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful 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.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Varnish (solvent-containing formulation)

Information on Components / Hazardous Ingredients:

Reaction mass of Ethylbenzene and Xylene (H226-312-315-332); REACH Reg. No. 01-2119488216-32	5 - 10 %	CAS-Nr: EINECS-Nr: 905-588-0 EC-Nr:
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1-Methoxypropane-2-ol (H226-336); REACH Reg. No. 01-2119457435-35-xxxx	5 - 10 %	CAS-Nr: 107-98-2 EINECS-Nr: 203-539-1 EC-Nr: 603-064-00-3
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Hydrocarbons, C9, Aromatics (H226-304-335-336-411); REACH Reg. No. 01-2119455851-35-xxxx	15 - 20 %	CAS-Nr: 64742-95-6 EINECS-Nr: 918-668-5 EC-Nr:
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n-Butylacetate (H226-336); REACH Reg. No. 01- 10 - 15 %
2119485493-29-xxxx

CAS-Nr: 123-86-4
EINECS-Nr: 204-658-1
EC-Nr: 607-025-00-1

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

*Seek medical attention in case of complaints.
In case of unconsciousness give nothing by mouth, place in stable side position and seek medical advice.*

After inhalation:

*Supply fresh air and keep patient calm.
Give artificial respiration in case breathing is not regular or if it has stopped.
In case of irritation of the respiratory system seek medical help.*

After skin contact:

*After contact with skin, wash immediately with polyethylene glycol and afterwards clean with plenty of water.
Remove contaminated clothing and wash before reuse.
If symptoms persist, consult a physician.*

After eye contact:

*In case of eye contact, thoroughly rinse with water and consult a doctor. Remove contact lens.
Seek medical attention if irritation persists.*

After ingestion:

*Never give anything by mouth to an unconscious person.
Rinse mouth with plenty of water.
Do not induce vomiting. Consult physician immediately.*

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

Symptoms:

Seek medical advice if symptoms occur or in case of doubt.

Effects:

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

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Water with full jet.

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5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*In case of fire: formation of nitrogen oxides.
Fumes can form an explosive mixture with air.
Flammable liquid and vapor.*

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.
Avoid contact with skin, eyes and 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, universal binder) 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:

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

7.2. Conditions for Safe Storage, including any Incompatibilities

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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.

Keep away from flammable materials.

Protect against heat, ignition sources and direct sunlight.

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 oxidizing agents, pyrophoric substances and self-heating substances.

7.3. Specific End Use(s)

Further information:

Solvent based varnish / Alkyd-based glaze.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Hydrocarbons, C9, aromatics:

TLV: 50 mg/m³; 2 (II)

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

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Hydrocarbons, C9, aromatics:

150 mg/m³ (worker, inhalation, long-term exposure - systemic effects)

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

32 mg/kg (consumer, inhalation, long-term exposure - systemic effects)

11 mg/kg bw/d (consumer, skin contact, long-term exposure -

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systemic effects
11 mg/kg bw/d (consumer, swallowing, long-term exposure - systemic effects)
n-Butyl acetate (123-86-4):
960 mg/m³ (worker, inhalation, short-term exposure - systemic effects)
480 mg/m³ (worker, inhalation, long-term exposure - systemic effects)
859.7 mg/m³ (consumer, inhalation, short-term exposure - systemic effects)
102.34 mg/m³ (consumer, inhalation, long-term exposure - systemic effects)
Reaction Mass of Ethylbenzene and Xylene:
221 mg/m³ (worker, inhalation, long-term exposure - systemic and local effects)
221 mg/m³ (worker, inhalation, short-term exposure - systemic and local effects)
212 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)
65.3 mg/m³ (consumer, inhalation, long-term exposure - systemic and local effects)
260 mg/m³ (consumer, inhalation, short-term exposure - systemic and local effects)
125 mg/kg bw/d (consumer, skin contact, long-term exposure - systemic effects)
12.5 mg/kg bw/d (consumer, swallowing, long-term exposure - systemic effects)
1-Methoxypropane-2-ol (CAS 107-98-2):
396 mg/m³ (worker, inhalation, long-term exposure - systemic effects)
553.5 mg/m³ (worker, inhalation, short-term exposure - local effect)
50.6 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)
18.1 mg/m³ (consumer, skin contact, long-term exposure - systemic effects)
3.3 mg/kg bw/d (consumer, swallowing, long-term exposure - systemic effects)

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
Reaction Mass of Ethylbenzene and Xylene:
Fresh water / Sea water: 0.327 mg/l
Intermittent release: 0.327 mg/l
Fresh water sediment / Sea water sediment: 12.46 mg/kg

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Sewage treatment system (STP): 6.58 mg/l
1-Methoxypropane-2-ol (CAS 107-98-2):
Fresh water: 10 mg/l
Sea water: 1 mg/l
Fresh water sediment: 52.3 mg/kg
Seawater sediment: 5.2 mg/kg
Sewage treatment system (STP): 100 mg/l
Soil: 5.2 mg/kg
Intermittent release: 100 mg/l

Additional Information:

Biological limit value (TRGS 903):
1-Methoxypropane-2-ol: 15 mg/l (end of exposure or shift; urine)
(TRGS 203, DE)

8.2. Exposure Controls

Technical protective measures:

Adequate ventilation.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.
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:

Required in case of insufficient ventilation.
Respiratory protection is required when sprayed.

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 (NBR) (> 480 min, 0.2 mm)
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.

Environmental precautions:

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

Form: liquid
Color: gold
Odor: characteristic

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<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>120°C</i>
<i>Flash point:</i>	<i>35°C</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>not applicable</i>
<i>Upper explosion limit:</i>	<i>not applicable</i>
<i>Lower explosion limit:</i>	<i>not applicable</i>
<i>Vapor pressure:</i>	<i>> 0.1 hPa</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>0.98 g/cm³</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>not oxidizing</i>
<i>Bulk density:</i>	

9.2. Further Information

<i>Solubility in solvents:</i>	
<i>Viscosity, kinematic:</i>	<i>> 20.50 mm²/s</i>
<i>Burning class:</i>	
<i>Solvent content:</i>	<i>39.07 %</i>

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

Solid content:

Particle size:

Other information:

Flow time: 82 - 91

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

Vapors in combination with air can form an explosive compound.

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 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 Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral:

Hydrocarbons, C9, aromatics: > 5000 mg/kg (rat)

n-Butylacetate: LD50: > 10000 mg/kg (rat; OECD 423)

Reaction mass of Ethylbenzene and Xylene: LD50: 3523 mg/kg (rat)

1-Methoxypropane-2-ol: 4277 mg/kg (rat)

LD50, dermal:

Hydrocarbons, C9, aromatics: > 3160 mg/kg (rabbit)

n-Butylacetate: >14000 mg/kg (rabbit; OECD 402)

Reaction mass of Ethylbenzene and Xylene: LD50: 12126 mg/kg (rabbit)

1-Methoxypropane-2-ol: LD50: 11000 mg/kg (rabbit)

LC50, inhalation:

Hydrocarbons, C9, aromatics: LC50: > 10.2 mg/l (4h, rat)

n-Butylacetate: LC50: >21 mg/l (4h, rat; OECD 403)

Reaction mass of Ethylbenzene and Xylene: LC50: 27.124 mg/l (4h, rat)

Primary effects

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Irritant effect on skin:

No information available

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):

Single exposure: may cause respiratory irritation.

Single exposure: may cause drowsiness or dizziness.

Repeated exposure: repeated contact may cause skin dryness or cracking.

Aspiration hazard:

No information available.

11.2. Information on other Hazards

Long-term inhalation of high vapor concentrations may cause headache, dizziness and nausea.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Hydrocarbons, C9, Aromatics: LL50: 9.22 mg/l (96h, Oncorhynchus mykiss)

n-Butylacetate: LC50: 18 mg/l (96h, Pimephales promelas; OECD 203)

Reaction mass of Ethylbenzene and Xylene: 2.6 mg/l (96h, fish); NOEC: 1.3 mg/l (56d, fish)

1-Methoxy-2-propanol: LC50: < 10000 mg/l (96h, Leuciscus idus)

Daphnia toxicity:

Hydrocarbons, C9, Aromatics: EC50: 3.2 mg/l (48h, Daphnia pulex; OECD 202)

n-Butylacetate: EC50: 44 mg/l (48h, Daphnia magna); NOEC: 230 g/l (21d, Daphnia magna; OECD 211)

Reaction mass of Ethylbenzene and Xylene: NOEC: 1.57 mg/l (21d, crustacea)

1-Methoxy-2-propanol: EC50: > 500 mg/l (48h, Daphnia magna)

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Bacteria toxicity:

No data available.

Algae toxicity:

Hydrocarbons, C9, Aromatics: ErC50: 2.9 mg/l (72h, Pseudokirchneriella subcapitata)
n-Butylacetate: ErC50: 675 mg/l (72h, Scenedesmus subspicatus)
Reaction mass of Ethylbenzene and Xylene: NOEC: 0.44 mg/l (3d)
1-Methoxy-2-propanol: ErC50: > 1000 mg/l (72h, Selenastrum capricomutum)

12.2. Persistency and Degradability

Hydrocarbons, C9, aromatics: 78 % (28d; OECD 301F), readily biodegradable
n-Butylacetate: 83 % (28d; OECD 301D), readily biodegradable
1-Methoxy-2-propanol: 96 % (28d; OECD 301F), readily biodegradable

12.3. Bioaccumulation

n-Butylacetate: log POW: 2.3
Reaction mass of Ethylbenzene and Xylene: log Pow: 3.16
1-Methoxy-2-propanol: log KOW < 1
1-Methoxy-2-propanol: BCF: < 100

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6. Endocrine Disrupting Properties

This product does not contain components considered to have endocrine disrupting properties.

12.7. Other Adverse Effects

Water hazard class:

3, hazardous

Behaviour in sewage systems:

Further ecological effects:

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

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.
Dispose of in accordance with Directive 2008/98/EC on waste and hazardous waste.

European Waste Code (EWC):

080111 - Waste paint and varnish containing organic solvents or

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other dangerous substances

Uncleaned packaging:

*Dispose of according to official local regulations.
Non-contaminated packaging may be recycled.*

Waste Code No.:

150104 - WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1263

14.2. UN Proper Shipping Name

ADR/RID: FARBE (Kohlenwasserstoffe)

IMDG/IATA: PAINT (Hydrocarbons)

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

Not classified as environmentally hazardous.

14.6. Special Precautions for User

*Always transport containers in an upright position to avoid spilling.
Take care to inform all involved persons how to handle product in case of accident or spillage (see Sections 6-8).*

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

15. Regulatory Information

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15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

3, very hazardous for water (according to the German Regulation AwSV using the mixing rule)

Local regulations on chemical accidents:

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:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3, 40, 75

Technical instructions on air quality:

5.2.5.: Organic substances: $m \geq 0.50$ kg/h: conc. 50 mg/m³

15. 2. Chemical Safety Assessment

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

15. 3. Further Information

Directive 2010/75/EC on Industrial Emissions (VOC): 49.069 % (480.872 g/l)

VOC-Directive (2004/42/EC): 49.07 % (480.884 g/l)

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.