

Material Safety Data Sheet

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



79622 Brass Lacquer, from 1892

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Revised edition: 30.10.2014

Version: 1.0

Printed: 13.11.2014

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

1.1. Product Identifier

Product Name: Brass Lacquer, from 1892

Article No.: 79622

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

H225 Flammable liquids, category 2
Highly flammable liquid and vapour.
Cat.: 2
H319 Causes serious eye irritation.
Cat.: 2

Classification according to EC Regulation No. 67/548 or No. 1999/45

Flammable (F) R11 Highly flammable

Safety Phrases:

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS02

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GHS07-1

Signal word:

Warning

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.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P403+P235 Store in a well ventilated place. Keep cool.

Hazardous components for labelling:

2.3. Other Hazards

No information available.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Contains natural resins and dyes, dissolved in ethyl alcohol.

Hazardous Ingredients:

Ethanol (F; R11; H225; 319); REACH Reg.-Nr. 01-2119457610-43	ca. 75 %	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.*

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After skin contact:

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

After eye contact:

*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.

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.*

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.
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.

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 electricity static discharge.
Combustible liquid.
Vapors may form an explosive mixture with air.
Cool exposed containers with water.*

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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 (VCI):

3: Flammable liquids

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.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Ethanol (CAS 64-17-5)

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

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Parameters to be controlled (EC):

Derived No-Effect Level (DNEL):

Ethanol (CAS 64-17-5):

1900 mg/m³ (worker, inhalation, short-term exposition - local effect)

343 mg/kg kg/d (worker, skin contact, long-term exposition - systemic)

950 mg/m³ (worker, inhalation, long-term exposition - systemic); (consumer, inhalation; short-term exposition - local effect)

206 mg/kg kg/d (consumer, skin contact, long-term exposition - systemic)

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

87 mg/kg kg/d (consumer, swallowing, long-term exposition - 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:

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Adequate ventilation to control airborne concentrations below the exposure limits.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

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; 0.5 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 (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.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: yellow

Odor: alcohol-like

Odor threshold:

No information available.

pH-Value:

not available

Melting temperature:

-121°C

Boiling temperature:

78°C

Flash point:

12°C

Evaporation rate:

No information available.

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Flammability (solid, gas):

not applicable

Upper explosion limit:

15 Vol. %

Lower explosion limit:

3.5 Vol. %

Vapor pressure:

60 hPa (20°C)

Vapor density:

No information available.

Density:

0.79 g/cm³ (20°C)

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

no information available

Auto-ignition temperature:

425°C

Decomposition temperature:

No data available.

Viscosity, dynamic:

not applicable

Explosive properties:

Product is not explosive; however, an explosive vapor/air mixture can be formed.

Oxidizing properties:

no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

The data is based on the solvent contained.

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. next page: 8

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10.4. Conditions to Avoid

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

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Ethanol (CAS 64-17-5): 2000 mg/kg (rat; OECD 401)

LD50, dermal:

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

LC50, inhalation:

Ethanol (64-17-5): > 20 mg/kg (4h, rat)

Primary effects

Irritant effect on skin:

No information available

Irritant effect on eyes:

Irritating (OECD 405)

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No data available.

Reproductive toxicity:

No information available.

Carcinogenicity:

No data available.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: the substance or mixture is not classified as

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specific target organ toxicant.

Repeated exposure: the substance or mixture is not classified as 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.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

Ethanol: LC50: 15300 mg/l (96h, Pimephales promelas); 11200 mg/l (24h, Salmo gairdneri)

Daphnia toxicity:

Ethanol: EC50: 858 mg/l (24h, Artemia salina; OECD 202); EC50: > 10000 mg/l (48h, Daphnia magna); LC50: 5012 mg/l (48h, Ceriodaphnia Dubia)

Bacteria toxicity:

Ethanol: EC50: 5800 mg/l (4h; Paramecium caudatum)

Algae toxicity:

Ethanol: EC50: 275 mg/l (3d, Chlorella vulgaris; OECD 201); EC10: 11.5 mg/l (3d, Chlorella vulgaris; OECD 201)

12.2. Persistency and Degradability

Ethanol: readily biodegradable (84 %, 20d).

12.3. Bioaccumulation

Ethanol: log Kow -0.3, BCF 0.66. No bioaccumulation.

12.4. Mobility

Ethanol: the product is mobile in aqueous environment. Not expected to adsorb on soil.

12.5. Results of PBT- und vPvP Assessment

Ethanol: This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Other Adverse Effects

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:

Must not be disposed together with household garbage.

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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 code of the European Waste Catalog.

Uncleaned packaging:

*Dispose of according to official local regulations.
Do not puncture, cut or weld uncleaned drums. Risk of explosion.
Residues may cause an explosion hazard.*

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1993

14.2. UN Proper Shipping Name

ADR/RID: ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Ethanol)

IMDG/IATA: ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Ethanol)

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel no.: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-D

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

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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

Local regulations on chemical accidents:

Underlies the Accident Ordinance 7b.

Employment restrictions:

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

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

Restriction and prohibition of application:

Ethanol:

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

Technical instructions on air quality:

15.2. Chemical Safety Assessment

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

15.3. Further Information

Ethanol: EC. Regulation No. 1451/2007 (Biocide), Annex I, Substances identified as existing (OJ (L325). Registered under EC Number 200-578-6

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.