



## Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: JOHA Italian balsamic oil varnish, color varnish**
- **Article number:**  
2421 yellow, 2422 golden yellow, 2423 red, 2424 brown, 2425 amber,  
2426 golden brown, 2427 red brown, 2428 black, 2429 dark brown
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
For laquering a instrument.  
Discharging agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hammerl GmbH & Co. KG  
Geigenlacke / Violin varnishes  
Hauptstraße 18  
91083 Baiersdorf  
Phone +49 (0)9133 2330  
Fax +49 (0)9133 5171  
e-mail [joha@hammerl.com](mailto:joha@hammerl.com)
- **1.4 Emergency telephone number:**  
Giftinformationszentrale Universitätsklinikum Mainz  
International  
24h Emergency number in German and English  
Phone: +49 6131 19240

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS07

Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H336 May cause drowsiness or dizziness.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02



GHS07

(Contd. on page 2)

GB

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 1)

- **Signal word** Danger
- **Hazard-determining components of labelling:**
  - 1-methoxy-2-propanol
  - dipentene
  - Turpentine, oil
- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H317 May cause an allergic skin reaction.
  - H336 May cause drowsiness or dizziness.
  - H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read carefully and follow all instructions.
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
  - 33.5 % of the mixture consists of component(s) of unknown toxicity.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol ⚠ Flam. Liq. 2, H225	25-50%
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	25-50%
CAS: 138-86-3 EINECS: 205-341-0	dipentene ⚠ Flam. Liq. 3, H226 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%

(Contd. on page 3)

GB



## Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

CAS: 8006-64-2 EINECS: 232-350-7	Turpentine, oil	(Contd. of page 2) ≥0.25-<1%
	⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 2, H411 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 78-93-3 EINECS: 201-159-0	butanone	≤2.5%
	⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

(Contd. on page 4)



## Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 3)

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****64-17-5 ethanol**WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm**107-98-2 1-methoxy-2-propanol**WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppmLong-term value: 375 mg/m<sup>3</sup>, 100 ppm

Sk

**8006-64-2 Turpentine, oil**WEL Short-term value: 850 mg/m<sup>3</sup>, 150 ppmLong-term value: 566 mg/m<sup>3</sup>, 100 ppm**78-93-3 butanone**WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppmLong-term value: 600 mg/m<sup>3</sup>, 200 ppm

Sk, BMGV

**Ingredients with biological limit values:****78-93-3 butanone**

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.

(Contd. on page 5)



## Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 4)

- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 78 °C
- **Flammability** Highly flammable.
- **Lower and upper explosion limit**
- **Lower:** 2.3 Vol %
- **Upper:** 20 Vol %
- **Flash point:** 13 °C
- **Auto-ignition temperature:** 270 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.

(Contd. on page 6)

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 5)

· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	59 hPa
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	60.7 %
· <b>Solids content:</b>	42.5 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.

(Contd. on page 7)

GB

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 6)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****64-17-5 ethanol**

Oral	LD50	3,450 mg/kg (mouse) 7,060 mg/kg (rat) 6,300 mg/kg (rabbit)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

**107-98-2 1-methoxy-2-propanol**

Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)

**98-55-5 alpha-Terpineol**

Oral	LD50	4,300 mg/kg (rat)
------	------	-------------------

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

**Endocrine disrupting properties**

78-93-3	butanone	List II
---------	----------	---------

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

**Type of test    Effective concentration    Method    Assessment****64-17-5 ethanol**

EC50 (48h)	9,268 mg/l (daphnia magna)
LC50 (48h)	8,140 mg/l (gol)
LC50 (24h)	>100 mg/l (daphnia magna)
EC5 (16h)	6,500 mg/l (Pseudomonas Putita)

**107-98-2 1-methoxy-2-propanol**

LC50 (48h)	23,300 mg/l (daphnia magna)
LC50 (96h)	>6,800 mg/l (gol)
EC50 (3h)	>1,000 mg/l (Pseudomonas Putita)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 8)

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 7)

**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

**· 12.7 Other adverse effects****· Remark:** Harmful to fish**· Additional ecological information:****· General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

**SECTION 13: Disposal considerations****· 13.1 Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**· Uncleaned packaging:****· Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1170

**· 14.2 UN proper shipping name****· ADR**

1170 ETHANOL (ETHYL ALCOHOL)

**· IMDG**

ETHANOL (ETHYL ALCOHOL)

**· IATA**

ETHANOL

**· 14.3 Transport hazard class(es)****· ADR, IMDG, IATA****· Class**

3 Flammable liquids.

**· Label**

3

**· 14.4 Packing group****· ADR, IMDG, IATA**

II

**· 14.5 Environmental hazards:****· Marine pollutant:**

No

**· 14.6 Special precautions for user**

Warning: Flammable liquids.

**· Hazard identification number (Kemler code):**

33

**· EMS Number:**

F-E,S-D

(Contd. on page 9)

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 8)

· <b>Stowage Category</b>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

\*

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger· **Hazard-determining components of labelling:**1-methoxy-2-propanol  
dipentene

(Contd. on page 10)

GB

**Safety data sheet  
according to UK REACH**

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 9)

Turpentine, oil

**· Hazard statements**

- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Directive 2012/18/EU**

- Named dangerous substances - ANNEX I** None of the ingredients is listed.
- Seveso category** P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**· National regulations:**

- Additional classification according to Decree on Hazardous Materials, Annex II:** Carcinogenic hazardous material group III (dangerous).

- Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

- Department issuing SDS:** Abteilung Umweltschutz

- Contact:** Hr. Hammerl

(Contd. on page 11)



## Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 6 (replaces version 5)

Revision: 25.02.2025

**Trade name: JOHA Italian balsamic oil varnish, color varnish**

(Contd. of page 10)

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

GB