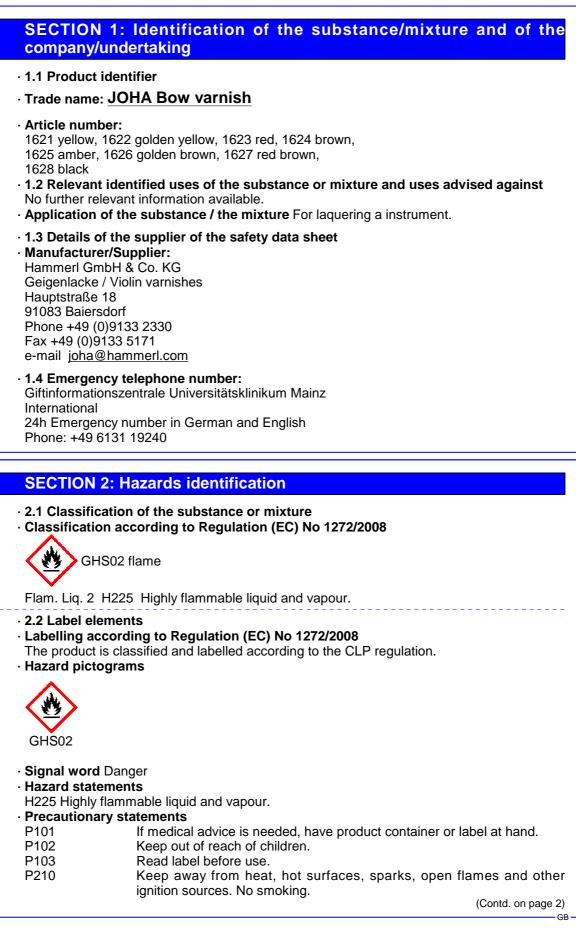
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P241 P280 P303+P361+P	(Contd. of page 1) Use explosion-proof electrical/ventilating/lighting equipment. Wear protective gloves/protective clothing/eye protection/face protection. 353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.		
P403+P235	Store in a well-ventilated place. Keep cool.		
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.		
· Additional inf	-		
67 % of the mi	xture consists of component(s) of unknown toxicity.		
<ul> <li>Labelling of p</li> </ul>	ackages where the contents do not exceed 125 ml		
<ul> <li>Hazard pictog</li> </ul>	jrams in the second		
GHS02			
· Signal word D			
<ul> <li>Hazard staten</li> </ul>			
<ul> <li>Precautionary</li> </ul>			
	al advice is needed, have product container or label at hand.		
P102 Keep out of reach of children. P103 Read label before use.			
• 2.3 Other haz			
	aros T and vPvB assessment		
• PBT: Not appli			
• <b>vPvB:</b> Not app			

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

- · 3.2 Chemical characterisation: 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	50-99%
	CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol	🚸 Flam. Liq. 3, H226	2.5-<10%
Additional information: For the wording of the listed bazard phrases refer to section 16				

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; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  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 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).
- Ensure adequate ventilation.
- · 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 No special measures required.
- 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**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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

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#### 107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm Sk

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Wash hands before breaks and at the end of work.

- · Respiratory protection: Not required.
- · Protection of hands:

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

<ul> <li>9.1 Information on basic physical a</li> <li>General Information</li> </ul>	
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	<b>ւոցe:</b> 78 °C
Flash point:	13 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	425 °C
Decomposition temperature:	Not determined.

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· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	3.5 Vol % 15.0 Vol %
· Vapour pressure at 20 °C:	59 hPa
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
<ul> <li>Solvent content: Organic solvents:</li> </ul>	72.2 %
Solids content: · 9.2 Other information	25.0 % No further relevant information available.

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- 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 toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

<ul> <li>LD/LC50 values relevant for classification:</li> <li>64-17-5 ethanol</li> </ul>			
			Oral
		7060 mg/kg (rat)	
		6300 mg/kg (rabbit)	
Dermal	LD50	> 2000 mg/kg (rat)	
Inhalative	LC50/4 h	20000 mg/l (rat)	
			(Contd. on page 6



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## Trade name: JOHA Bow varnish

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

Oral LD50 4016 mg/kg (rat)

Dermal LD50 13000 mg/kg (rabbit)

• Primary irritant effect:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

 $\cdot$  CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

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

· Type of tes	t Effective concentration Method Assessment	
64-17-5 eth	anol	
EC50 (48h)	9268 mg/l (daphnia magna)	
LC50 (48h)	8140 mg/l (gol)	
LC50 (24h)	> 100 mg/l (daphnia magna)	
EC5 (16h)	6500 mg/l (Pseudomonas Putita)	
107-98-2 1-methoxy-2-propanol		
LC50 (48h)	23300 mg/l (daphnia magna)	
LC50 (96h)	> 6800 mg/l (gol)	
EC50 (3h)	> 1000 mg/l (Pseudomonas Putita)	
<ul> <li>12.2 Persistence and degradability No further relevant information available.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>Additional ecological information:</li> </ul>		
<ul> <li>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.</li> <li>12.5 Results of PBT and vPvB assessment</li> </ul>		

• **PBT:** Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

#### · European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

#### · Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1170
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> <li>IATA</li> </ul>	1170 ETHANOL (ETHYL ALCOHOL) mixtu ETHANOL (ETHYL ALCOHOL) mixture ETHANOL mixture
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	II
<ul> <li>• 14.5 Environmental hazards:</li> <li>• Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D A
• 14.7 Transport in bulk according to A II of Marpol and the IBC Code	nnex Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packagir 30 ml Maximum net quantity per outer packagir 500 ml

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<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL) MIXTURE, 3, II

## **SECTION 15: Regulatory information**

# $\cdot$ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms



#### · Signal word Danger

#### · Hazard statements

H225 Highly flammable liquid and vapour.

#### Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
  P102 Keep out of reach of children.
  P103 Read label before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other
- ignition sources. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower. P403+P235 Store in a well-ventilated place. Keep c

P403+P235Store in a well-ventilated place. Keep cool.P501Dispose of contents/container in accordance with local/regional/national/<br/>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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. (Contd. on page 9)



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#### · 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.

- · Department issuing SDS: Abteilung Umweltschutz
- · Contact: Hr. Hammerl

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

\* Data compared to the previous version altered.