

Safety data sheet
according to 1907/2006 / EC, Article 31, as amended by
Commission Regulation (EU) No. 2015/830

Printing date 21.08.2019

Version number 5

Revision: 27.02.2019

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

- **1.1 Product identifier**
- **Trade name:** 70GU454791 OPV Matt Varnish 6913301; GFU
- **MSDS no.** 238,111
- **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** Printing inks
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hubergroup Italia S.p.A.
Via A. Meucci No. 5/6/7
36050 Bolzano Vicentino
Telefon: +39 0444-250000
Telefax: +39 0444-350324
- **Informing department:**
Product Safety hubergroup
Telefon: + 49 89-9003-220
Telefax: + 49 89-9003-500
E-mail: product-safety@hubergroup.com
- **1.4 Emergency telephone number:**
During general business hours: Product Safety Division, Extension 220 or 444

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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

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



GHS02



GHS07

- **Signal word** Danger

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- **Hazard-determining components of labelling:**
Resin acids and Rosin acids, fumarated, esters with pentaerythritol
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
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/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards** This information is provided by the present Material Safety Data Sheet.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**
Preparation of synthetic resins, organic and inorganic pigments (not valid for unpigmented systems like extenders or lacquers) and additives in solvents.
- **Dangerous components:**

CAS: 141-78-6	Ethyl acetate	10-15%
EINECS: 205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119475103-46-xxxx		
CAS: 94581-15-4	Resin acids and Rosin acids, fumarated, esters with pentaerythritol	3-<5%
EC number: 305-514-1	Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 4, H413	
Reg.nr.: 01-2119485895-17-xxxx		
- **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**
- **General information**
In all cases of doubt, or when symptoms persist, seek medical advice.
In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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- **After inhalation**
Remove to fresh air.
Keep patient warm and at rest.
- **After skin contact**
Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- **After eye contact**
Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.
- **After swallowing** Do NOT induce vomiting. Obtain medical attention.
- **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** Alcohol resistant foam, CO₂, powders, water spray.
- **For safety reasons unsuitable extinguishing agents** Water jet.
- **5.2 Special hazards arising from the substance or mixture**
Appropriate breathing apparatus may be required.
Cool closed containers exposed to fire with water.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Exclude sources of ignition.
Ventilate the area.
Avoid breathing vapours.
- **6.2 Environmental precautions:**
Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.
- **6.3 Methods and material for containment and cleaning up:**
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapour and avoid vapour concentrations higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

When transferring from one container to another apply earthing measures and use conductive hose material. Exercise caution when opening to allow pressure release. Printing ink removed from printing press for storage must be kept in the original container.

No sparking tools should be used.

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

Dry deposits of nitrocellulose inks are highly flammable. The product should not be applied on the same press as inks that generate heat during drying (for instance, two pack inks, drying vegetable oil and alkyd based inks), unless the press and exhaust ducting are completely cleaned between each product change. To avoid the risk of fire, do not allow this product to dry out.

Please consult CEPE guideline for the safe use of cellulose nitrate printing inks and related products.

Do not mix with other wastes.

Information about protection against explosions and fires:

Vapours may form explosive mixtures with air.

Solvent vapors are heavier than air and may spread along floors.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Storage rooms in which filling operations take place must have a conducting floor.

Never use pressure to empty: container is not a pressure vessel. Keep container tightly closed. Prevent unauthorized access. Opened containers must be carefully resealed and kept upright to prevent leakage.

Keep container tightly closed. No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information about storage conditions:

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.

Keep away from sources of ignition.

Note Instructions on the label.

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

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* SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems:

If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

Numerical data - if specified - are taken from the valid national lists.

64-17-5 ethanol (50-60%)

WEL Long-term value: 1920 mg/m³, 1000 ppm

141-78-6 Ethyl acetate (10-15%)

WEL Short-term value: 1468 mg/m³, 400 ppm

Long-term value: 734 mg/m³, 200 ppm

67-63-0 Propan-2-ol (<0.5%)

WEL Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

· DNELs

141-78-6 Ethyl acetate

Dermal DNEL workers 63 mg/kg bw/d (human)

Inhalative DNEL workers 734 mg/m³ (human)

94581-15-4 Resin acids and Rosin acids, fumarated, esters with pentaerythritol

Dermal DNEL workers 4 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 2,900 mg/m³ (human) (chronic; systemic)

· PNECs

141-78-6 Ethyl acetate

PNEC 0.22 mg/kg (soil)

PNEC STP 650 mg/l (STP)

94581-15-4 Resin acids and Rosin acids, fumarated, esters with pentaerythritol

PNEC 0.249 mg/kg (soil)

PNEC STP 1.26 mg/l (soil)

· 8.2 Exposure controls

· Personal protective equipment

· Breathing equipment:

The use of respiratory protective measures, such as masks with filters for organic Vapours and dusts / mists are, in the absence of appropriate technical equipment, necessary for the protection of the employee. If exposure is above the exposure limit, then an appropriate, approved respirator must be worn. Please refer to the appropriate EU standard 14387.

· Protection of hands:

For prolonged or repeated contact use gloves.

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Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

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

• **Material of gloves**

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommended protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 898/ Butoject / Butyl / 0,7 mm Level 6 > 480 min. by fullcontact.

Nr. 890/ Vitoject / Viton / 0,7 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

• **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:** Use safety eyewear designed to protect against splash of liquids.

• **Body protection:**

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

All parts of the skin should be washed after contact.

*** SECTION 9: Physical and chemical properties**

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

liquid

Colour:

according to the tradename of the product

• **Smell:**

characteristic

• **Odour threshold:**

Not determined.

• **pH-value:**

Not determined.

• **Change in condition**

Melting point/freezing point:

not determined

• **Flash point:**

9 °C

• **Inflammability (solid, gaseous)**

Not applicable.

• **Ignition temperature (Main Solvnt):**

425 °C

• **Decomposition temperature:**

Not determined.

• **Self-inflammability:**

Not determined.

• **Explosive properties:**

Not determined.

• **Critical values for explosion:**

Lower: approx.

2.1 Vol %

Upper: approx.

15.0 Vol %

• **Vapour pressure:**

Not determined.

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· Density at 20 °C	0.9307 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
	Not applicable.
· Solubility in / Miscibility with Water:	Solvent fully miscible with water
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Organic solvents:	60-80 %
Solid content:	34.5 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **10.3 Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide, smoke and oxides of nitrogen (NO_x).
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and/or GHS -Regulation and classified for toxicological hazards accordingly. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

141-78-6 Ethyl acetate

Oral	LD50 5,620 mg/kg (rbt)
Dermal	LD50 >18,000 mg/kg (rabbit)

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Inhalative LC50 56,000 mg/m³ (rat) (4h)

94581-15-4 Resin acids and Rosin acids, fumarated, esters with pentaerythritol

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

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

• **Serious eye damage/irritation**

Causes serious eye irritation.

• **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

• **Additional toxicological information:**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

• **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

• **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

• **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.

• **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

The Product should not be allowed to enter drains of water courses or soil.

• **12.1 Toxicity**

• **Aquatic toxicity:**
141-78-6 Ethyl acetate

Fish toxicity 230 mg/l (fish) (LC 50; 96h)

Daphnia toxicity 717 mg/l (daphnia) (EC50; 48h)

Algae toxicity 5,600 mg/l (algae) (EC50; 48h)

94581-15-4 Resin acids and Rosin acids, fumarated, esters with pentaerythritol

Fish toxicity >400 mg/l (fish) (LC50; 96 h)

Daphnia toxicity 100 mg/l (daphnia) (EL50; 48 h)

Algae toxicity >100 mg/l (algae) (EI50; 48 h)

• **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.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Do not allow to enter drains.
- **European waste catalogue** 08 03 12: waste ink containing dangerous substances
- **Uncleaned packagings:** Waste
- **Recommendation:**
Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1210
- **14.2 UN proper shipping name**
- **ADR** 1210 PRINTING INK
- **IMDG, IATA** PRINTING INK
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.
- **Label** 3

- **IMDG, IATA**



- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** No

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· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1210 PRINTING INK, 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- 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
The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.
- VOC-Content (EU): 65.51 %
- Swiss VOC-Regulation 65.52 %
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

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· Relevant phrases

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H413 May cause long lasting harmful effects to aquatic life.

· Abbreviations and acronyms:

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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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
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
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * Data compared to the previous version altered.

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