Safety data sheet

According to regulation (EC) 1907/2006, 453/2010
Revision date: May 2013
Product name: White shellac-oil varnish

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

1.1 Product identifier

Trade name:	White shellac-oil varnish

1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture: varnish

1.3 Details of the supplier of the safety data sheet

Company	Esprit Composite 22, Rue Gassendi F-75014 Paris France
Telephone	Tel: +33 1 4044 4797
Telefax	Fax: +33 1 4044 4951
Website:	www.espritcomposite.com
E-mail:	contact@espritcomposite.fr

1.4 Emergency telephone number:

NHS Direct England or Wales:	+44 0845 4647
NHS 24 Scotland (UK only):	+44 08454 242424

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flam. Liq. 2	H225: Highly flammable liquid and vapor.
Eye Irrit. 2	H319: Causes serious eye irritation.

Classification (67/548/EEC, 1999/45/EC)

Highly flammable F	R11: Highly flammable.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal word: Danger

Hazard statements:
H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.

Precautionary statements:

Prevention:

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P233: Keep container tightly closed.
P243: Take precautionary measures against static discharge.

Response:

P303+P361+P353: IF ON SKIN (or hair) : Remove 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.
P337+P313: If eye irritation persists: Get medical advice.

Storage:

P403+P235: Store in well-ventilated place. Keep cool.

Hazardous components which must be listed on the label:

- Ethanol

2.3 Other hazards

Physical/chemical hazards: Vapors may be heavier than air, spread along the ground and collect in low or confined areas.

Hazards for the health: A health dangerous concentration in the air will rather slowly be reached by evaporation of this substance at app. 20°C; by spraying much faster.

Hazards for the environment: No significant danger. This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).

Hazards for the safety: Vapor mixes readily with air forming explosive mixtures.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Hazardous components:

Chemical name	CAS No. EC No. Registration number	Classification (67/548/CEE)	Classification (Regulation (EC) No 1272/2008)	Concentration (%)
Ethanol	64-17-5 200-578-6 01-2119457610-43	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 92
Isopropyl Alcohol	67-63-0 200-661-7 01-2119457558-25	F; R11 R67 Xi; R36	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5

For explanation of abbreviations see section 16.

SECTION 4. First aid measures:

4.1 Description of first aid measures

General: In case of doubt or persistent symptoms, call a physician.
Never give anything by mouth to an unconscious person.

First Aid Measures

Inhalation: Remove victim into fresh air.
Allow the affected person to rest.
If not breathing, give artificial respiration.
Consult a doctor.

Skin Contact: Remove contaminated clothing.
Rinse skin immediately with plenty of water. (shower if necessary).
Consult a doctor.

Eye Contact: Rinse immediately thoroughly and long (at least 15 min.) with plenty of water.
Remove contact lenses.
Consult eye doctor.
Keep rinsing or dripping the eye during transport.

Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	See section 11.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice doctors should contact the NHS Direct England or Wales or NHS 24 Scotland (UK only).

SECTION 5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Extinguishing powder, Alcohol resistant foam, Carbon dioxide (CO2), Water spray
Unsuitable extinguishing media:	Heavy water stream.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:	Fire may liberate carbon oxides (CO) and smoke.

5.3 Advice for firefighters

Special protective equipment for firefighters:	Use self-contained breathing apparatus and wear protective clothes when in close proximity to fire.
Special Procedures:	Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Eliminate every possible source of ignition (open fire, sparks, smoking, ...). Evacuate all personnel immediately and ventilate area. Avoid breathing vapor and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)

6.2 Environmental precautions

Environmental precautions:	Shut off leaks if without risks. Dike in the spilled product as much as possible with inert material. Prevent entry of product in public water, sewers or soil. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:	Collect the spillage in closable, suitable disposal containers. Clean up any spills as soon as possible, using an inert absorbent material. Residue is to be washed down with plenty of water.

6.4 Reference to other sections

For personal protection, see section 8.
For the removal of the waste product, see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Attention : SKIN ABSORPTION ! STRONG HYGIENE ! AVOID FOG TRANSFORMATION !

Avoid breathing vapor and contact with skin, eyes and clothing. Wear recommended personal protective equipment. (See section 8)
When using, do not eat, drink or smoke.
Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original, safely locked container in a cool, well ventilated and fireproof place.
All dangerous products should be placed on a drip tray or should be barreled.
Store away from all heat sources, including direct sunlight.
Keep away from: Oxidizing agents , Strong acids .

Protection against Fire and Explosion: Remove all sources of ignition (open fire, sparks, smoking, ...).
With a temperature equal to or higher than the flash point, the mixture steam-air may create a highly flammable and explosive mixture.
Do not use compressed air to either agitate or transfer contents of storage containers (tanks) / shipping drums containing this material.
Use explosionproof equipment.
Use spark-arm implement.

Packaging Material: Stainless steel , Carbon steel , Iron , Glass .

Unsuitable Packaging Material: Aluminum , Some synthetics .

7.3 Specific end use(s)

For identified uses, see subsection 1.2 and/or exposure scenarios.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits: For harmful components:
Ethanol : Limit value (BE) : 1000 ppm (1907 mg/m³) (2011)
Ethanol : Limit value (TWA 8 h) (NL) : 200 ppm (260 mg/m³) (2008) (H)
Ethanol : Limit value (TWA 15 min) (NL) : 1000 ppm (1900 mg/m³) (2008) (H)
Isopropyl alcohol : Limit value (BE) : 200 ppm (500 mg/m³) (2011)
Isopropyl alcohol : Short time value (BE) : 400 ppm (1000 mg/m³) (2011)
(H) The addition of an "H" indicates that the substance is relative easily absorped by the skin.

Biological limit values: They will be included when available.

DNELs: For harmful components:
• Ethanol : Worker, acute - local effects, inhalation : 1900 mg/m³
• Ethanol : Worker, long-term - systemic effects, inhalation : 950 mg/m³

• Ethanol : Worker, long-term - systemic effects, dermal : 343 mg/kg/ day
• Ethanol : Consumer, acute - local effects, inhalation : 950 mg/m³
• Ethanol : Consumer, long-term - systemic effects, inhalation : 114 mg/m³
• Ethanol : Consumer, long-term - systemic effects, dermal : 206 mg/kg/ day
• Ethanol : Consumer, long-term - systemic effects, oral : 87 mg/kg/ day
• Isopropyl alcohol : Worker, long-term - systemic effects, inhalation : 500 mg/m³
• Isopropyl alcohol : Worker, long-term - systemic effects, dermal : 888 mg/kg bw/day
• Isopropyl alcohol : Consumer, long-term - systemic effects, inhalation : 89 mg/m³
• Isopropyl alcohol : Consumer, long-term - systemic effects, dermal : 319 mg/kg bw/ day
• Isopropyl alcohol : Consumer, long-term - systemic effects, oral : 26 mg/kg

PNECs: For harmful components:
• Ethanol : Fresh water : 0,96 mg/l
• Ethanol : Marine water : 0,79 mg/l
• Ethanol : Fresh water sediment : 3,6 mg/kg
• Ethanol : Soil : 0,63 mg/kg
• Isopropyl alcohol : Fresh water : 140,9 mg/l
• Isopropyl alcohol : Marine water : 140,9 mg/l
• Isopropyl alcohol : Intermittent release : 140,9 mg/l
• Isopropyl alcohol : Fresh water sediment : 552 mg/kg
• Isopropyl alcohol : Marine water sediment : 552 mg/kg
• Isopropyl alcohol : Soil : 28 mg/kg
• Isopropyl alcohol : Sewage treatment plant : 2251 mg/l

8.2 Exposure controls

Engineering Measures: Ventilation , Local exhaust .

Personal Protection Equipment

Respiratory protection: CE-approved mask for organic vapours and solvents (type A, brown).

Skin protection: Suitable protective clothing .

Hand protection: Suitable material for safety gloves (EN 374): Butyl rubber : penetration time > 480' - thickness 0,5 mm

Eye/Face protection: Closed safety glasses or face shield.

Environmental exposure controls: See sections 6, 7, 12 en 13.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State (20°C): Liquid

Form/Color: White.

Odor: Odor of alcohol.

Odor threshold: No data available for the mixture.

pH value:	No data available for the mixture.
Melting/Freezing point:	< -25 °C
Boiling Point/Range (1013 hPa):	> 78 °C
Flash point:	12 °C
Fire hazard:	P1
Evaporation rate:	> 8 (Ether=1)
Explosion limits in air:	3,4 - 19 vol.% (Ethanol)
Vapor pressure (20°C):	> 6 kPa
Relative vapor density (air=1):	No data available for the mixture.
Density (20°C):	0,788 - 0,809 kg/l
Solubility in water:	Complete solubility.
Log P Octanol/Water (20°C):	-0,35 (Ethanol)
Auto-ignition temperature:	> 300 °C
Minimum ignition energy:	No data available for the mixture.
Decomposition temperature:	No data available for the mixture.
Viscosity:	1,2 mPa.s (Dynamic)
Explosive properties:	No chemical groups associated with explosive properties .
Oxidizing properties:	No chemical groups associated with oxidizing properties .

9.2 Other information

% Volatiles (by weight):	> 99

SECTION 10. Stability and reactivity

10.1 Reactivity

Reactivity:	Reacts violently with oxidizing agents and strong acids.

10.2 Chemical stability

Chemical stability:	Stable at normal circumstances.

10.3 Possibility of hazardous reactions

Hazardous reactions:	Exothermic reaction.

10.4 Conditions to avoid

Conditions to avoid:	High temperatures.

10.5 Incompatible materials

Materials to avoid:	Oxidizing agents, Strong acids, Aluminium.

10.6 Hazardous decomposition products

Hazardous decomposition products:	Carbon oxides.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation:	May cause irritation of respiratory tract. Exposure to high concentrations may cause lowering of consciousness. Symptoms include: Cough, Headache, Drowsiness, Dizziness. For harmful components: • Ethanol: LC50 (Rat, inhalation, 4 h): 51-124,7 mg/l • Isopropyl alcohol: LC50 (Rat, inhalation, 4 h): > 20 mg/l
Skin contact:	May be irritating for the skin.

	Symptoms include: Pain, Redness. For harmful components: • Ethanol: LD50 (Rabbit, dermal) : >2000 mg/kg • Isopropyl alcohol: LD50 (Rabbit, dermal) : > 5000 mg/kg
Eye contact:	May be irritating to eyes. Symptoms include: Pain, Redness.
Ingestion:	After swallowing, some drops of liquid can enter the longs (aspiration), which may cause pneumonia. Symptoms include: Headache, Dizziness, Drowsiness. For harmful components: • Ethanol: LD50 (Rat, oral) : 10470 mg/kg • Isopropyl alcohol: LD50 (Rat, oral) : > 5000 mg/kg
Skin corrosion/irritation:	Rabbit: Irritant.
Serious eye damage/irritation:	Causes serious eye irritation.
Aspiration hazard:	Not considered hazardous.
Respiratory or skin sensitization:	Not sensitive.
Carcinogenicity:	Not listed as carcinogenic. The Netherlands: Ethanol is included in the SZW-list. (a)
Mutagenicity:	Not listed as mutagenic.
Reproductive toxicity:	Not listed for reproductive toxicity. The Netherlands: Ethanol is included in the SZW-list (b)
Specific target organ toxicity - single exposure:	To human: Listed not for organ toxicity. For animals: No effects known.
Specific target organ toxicity - repeated exposure:	To human: Listed not for organ toxicity. For animals: No effects known.

SECTION 12. Ecological information

12.1 Toxicity

Ecotoxicity:	For harmful components: • Ethanol: EC50 (Daphnia magna, 48 h) : 12340 mg/l • Ethanol: EC50 (Algae, 72 h) : 275 mg/l (Chlorella vulgaris) • Ethanol: LC50 (Fish, 96 h) : 13000 mg/l (Oncorhynchus mykiss) • Isopropyl alcohol: EC50 (Daphnia magna, 24 h) : > 1000 mg/l • Isopropyl alcohol: EC50 (Algae, 72 h) : > 1000 mg/l • Isopropyl alcohol: LC50 (Fish, 96 h) : 9640 mg/l

12.2 Persistence and degradability

Persistence and degradability:	For harmful components: • Ethanol: Persistence and degradability: Easily biodegradable. • Isopropyl alcohol: Persistence and degradability: Easily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation:	For harmful components: • Ethanol: Bioaccumulation: Bioaccumulation not expected. • Isopropyl alcohol: Bioaccumulation: No bioaccumulation.

12.4 Mobility in soil

Mobility:	For harmful components: • Ethanol: Mobility: No data available. • Isopropyl alcohol: Mobility: Completely soluble in water.

12.5 Results of PBT and vPvB assessment

Evaluation:	For harmful components: • Ethanol: PBT/vPvB : No • Isopropyl alcohol: PBT/vPvB: No

12.6 Other adverse effects

WGK class (DE):	1 (Weak water pollutant).
Water damaging (NL):	11
Decontamination exertion (NL):	B
Photochemical ozone creation potential:	No data available for the mixture.
Ozone depletion potential:	No data available for the mixture.
Endocrine disrupting potential:	No data available for the mixture.
Global warming potential:	No data available for the mixture.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues/Unused products:	The product has to be destroyed according to national or local legislation, by a company specialized in handling hazardous waste products.
European list of waste products:	XXXXXX - European waste product code. This code is assigned on the basis of the most current applications and cannot be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See Decision 2001/118/EC.
Removal contaminated packaging:	Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully. In case of returned packing, the empty packing can be offered back to the supplier.

SECTION 14. Transport information

14.1 UN number

UN Number:	1170

14.2 UN proper shipping name

ADR Name:	UN 1170 Ethanol solution (Ethyl alcohol solution), 3, II, (D/E)
ADN Name:	UN 1170 Ethanol solution (Ethyl alcohol solution) , 3, II
IMDG Name:	UN 1170 Ethanol solution (Ethyl alcohol solution) , 3, II, (12°C)
IATA Name:	UN 1170 Ethanol solution (Ethyl alcohol solution), 3, II

14.3 Transport hazard class(es)

Class:	3

14.4 Packing group

Packaging Group:	II

14.5 Environmental hazards

Environmentally hazard:	No
Marine pollutant:	No

14.6 Special precautions for user

Danger number:	33
Hazard Label(s):	3
EmS-N°:	F-E, S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Type ship:	No data available for the mixture.
Pollution category:	No data available for the mixture.

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NFPA n°:	2-3-0
Relevant EU Rule(s):	Directive 96/82/EC of the Council of 9 December 1996 on the control of major accident hazards involving dangerous substances Directive 98/24/EC of the Council of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Directive 1999/13/EC of the Council of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC Decision 2001/118/EC of the Commission of 16 January 2001 amending Decision 2000/532/EC as regards the list of wastes Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (Reach)

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out for the substance(s) that make up this material or for the material itself.

SECTION 16. Other information

Full text of R-Phrases

R11:	Highly flammable.

R36:	Irritating to eyes.
R67:	Vapors may cause drowsiness and dizziness.
Full text of H-Statements	
H225:	Highly flammable liquid and vapor.
H319:	Causes serious eye irritation.
H336:	May cause drowsiness or dizziness.
Full text of other abbreviations	
ADN:	(Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation interieur): European agreement concerning the international carriage of dangerous goods by inland waterways
ADR:	(Accord européen relatif au transport international des marchandises Dangereuses par Route): European agreement concerning the international carriage of dangerous goods by road
CO:	Carbon monoxide
DNEL (Derived No Effect Level):	an estimated safe exposure level
EmS (Emergency Schedule):	the first code refers to the relevant fire schedule and the second code refers to the relevant spillage schedule
IATA (International Air Transport Association):	provisions concerning the international carriage of dangerous goods by air
IMDG:	(International Maritime Dangerous Goods code)
NFPA:	(National Fire Protection Association) or fire diamant
NVCI:	National Poisoning Information Center
PBT:	persistent, bioaccumulative and toxic
PNEC (Predicted No Effect Concentration):	concentration below which exposure to a substance is not expected to cause adverse effects
REACH:	Registration, Evaluation, Authorisation and restriction of Chemicals
SZW-list:	List of carcinogenic substances and processes as referred to in Article 4.11 of the Working conditions decree (a)
SZW-list:	Non-limitative list of reproduction toxic substances to which the additional registration obligation applies as referred to in Article 4.2a, second paragraph of the Working conditions decree (b)
TWA (Time-Weighted Average):	the average exposure over a specified period
vPvB:	very persistent and very bioaccumulative
WGK (Wassergefahrdungsklasse):	a German classification of substances that indicate the environmental hazard for surface water

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.