MATERIAL SAFETY DATA SHEET
CLEAR YACHT VARNISH

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

1.1 Product identifier

For Industrial, professional and consumer only

Trade name: Symphony Narrowboat Paint Clear Yacht Varnish

1.2 Relevant identified uses of the substance or mixture and uses advised against Surface Coating

Relevant uses: Surface Coating
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Supplier:

SYMPHONY COATINGS GROUP LTD
10A GRANGE WAY
WHITEHALL IND EST
COLCHESTER
CO2 8HG
UNITED KINGDOM
Tel: +44 (0)1206 868400
Email: hs@symphonynarrowboatpaint.co.uk

Further information from: hello@symphonynarrowboatpaint.co.uk

1.4 Emergency number

+44 (0)1206 868400 (business hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226 Flammable liquid and vapour
STOT SE 3	H336 May cause drowsiness or dizziness.
STOT RE 1	H372 Causes damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2	H411 Toxic 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 CLP regulation.

Hazard pictograms:

Signal word: Danger

Hazard-determining components of labelling: Contains reaction mass of .alpha.-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- .omega.-hydroxypoly(oxyethylene) and .alpha.- 3-(3-(2H-benzotriazol-2-

	yl)-5- tert-butyl-4-hydroxyphenyl) propionyl-.omega.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene),bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, 2-butanone oxime, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
Hazard statements:	H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.
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. P260 Do not breathe 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.

2.3 Other hazards

Results of PBT and vPvB assessment: **PBT:** Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substance: Non-applicable

3.2 Mixture: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

EC number: 919-446-0 Reg.nr.: 01-2119458049-33-xxxx	Hydrocarbons, C9-12, n-alkanes, isoalkanes,cyclics, aromatics (2-25%) Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	25 - 50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	Xylene (mix) Flam. Liq. 3, H226; d STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5 – 10%
	Benzotriazole Derivitive Mixture Aquatic Chronic 2, H411; Skin Sens. 1, H317	≤2.5%
CAS: 41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≤2.5%
CAS: 96-29-7 EINECS: 202-496-6 Reg.nr.: 01-2119539477-28	2-butanone oxime Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	≤2.5%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt bis(2-ethylhexanoate) Repr. 1B, H360F; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≤2.5%

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: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air and call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.
Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO_2, 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

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
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 item 13.
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

- Keep receptacles tightly sealed.
- Ensure good ventilation/extraction at the workplace.
- Prevent formation of aerosols.
- Hygiene measures:
- Wash hands before breaks and at the end of workday.

Information about fire - and explosion protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product, may spontaneously self-ignite some hours later. To avoid the risk of fires, all contaminated materials should be [stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.] or [laid out flat in a single layer to dry] or [placed in a metal container soaked with water] or [washed out well with warm soapy water before disposal.] Contaminated materials should be removed from the workplace at the end of each working day and stored outside
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep receptacle tightly sealed and in a well-ventilated place. Keep away from heat.

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:	
1330-20-7 Xylene (mix)	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

DNELs		
Hydrocarbons, C9-12, n-alkanes, isoalkanes,cyclics, aromatics (2-25%)		
Oral	DNEL	26 mg/day (Con)
Dermal	DNEL	26 mg/day (Con) 44 mg/day (Ind)
Inhalative	DNEL	71 mg/m³ (Con) 330 mg/m³ (Ind)
1330-20-7 Xylene (mix)		
Dermal	DNEL	108 mg/day (Con) 180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m³ (Con) 77 mg/m³ (Ind)
Reaction mass of bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6,pentamethyl-4 piperdyl sebacate		
Oral	DNEL	0.5 mg/day (Con)
Dermal	DNEL	1 mg/day (Con) 2 mg/day (Ind)
Inhalative	DNEL	0.87 mg/m³ (Con) 3.53 mg/m³ (Ind)
96-29-7 2-butanone oxime		
Dermal	DNEL	0.78 mg/day (Con) 1.3 mg/day (Ind)
Inhalative	DNEL	2.7 mg/m³ (Con) 9 mg/m³ (Ind)

PNECs
CAS No. 1330-20-7 Xylene mixed isomers
- Fresh water; 0.327 mg/l - Marine water; 0.327 mg/l - Intermittent release; 0.327 mg/l - STP; 6.58 mg/l - Sediment (Freshwater); 12.46 mg/kg - Sediment (Marine water); 12.46 mg/kg - Soil; 2.31 mg/kg

Ingredients with biological limit values:	
1330-20-7 Xylene (mix)	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid · Additional information: The lists valid duri

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

8.2 Exposure controls

Personal protective equipment:

· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Respiratory protection:**
When spraying the product, use a respiratory protective device.
· **Protection of hands:**

Protective Gloves

· **Eye protection:**

Tightly Sealed Goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance	
Form:	Liquid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	135 °C
Flash point:	31 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	>200 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits	
Lower:	0.6 Vol %
Upper:	7 Vol %
Vapour pressure at 20 °C:	Not determined.
Density at 20 °C:	0.922 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with water:	NOT MISCIBLE
Partition coefficient: n-octanol/water:	Not determined.
Viscosity Dynamic at 20 °C: Kinematic:	 230 mPas Not determined.
Solvent content Organic solvents:	 3.7 %
Solids content:	53.8 %

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	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 when stored and handled correctly

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values relevant for classification:		
Hydrocarbons, C9-12, n-alkanes, isoalkanes,cyclics, aromatics (2-25%)		
Oral	LD50	>15,000 mg/kg (Rat)
Dermal	LD50	>3,400 mg/kg (Rab)
Inhalative	LD50/4h	13.1 mg/l (Rat)
1330-20-7 Xylene (mix)		
Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rab)
Inhalative	LD50/4h	11 mg/l (Rat)
Reaction mass of bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6,pentamethyl-4 piperdyl sebacate		
Oral	LD50	3,230 mg/kg (Rat)
96-29-7 2-butanone oxime		
Oral	LD50	2,326 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (Rab) 200-2,000 mg/kg (rat)
Inhalative	LD50/4h	>4.8 mg/l (rat)

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:	May cause an allergic skin reaction.
CMR effects	
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	May cause drowsiness or dizziness.
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity	No further relevant information available.
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.
Ecotoxical effects: · **Remark:** Toxic for fish · **Additional ecological information:** · **General notes:** Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms	
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	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:	Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA	UN1263

14.2 UN proper shipping name

ADR	1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS
IMDG	PAINT RELATED MATERIAL (TURPENTINE SUBSTITUTE, DIPENTENE), MARINE POLLUTANT
IATA	PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR	
Class	3 Flammable Liquids
Label	3
IMDG	
Class	3 Flammable Liquids
Label	3

14.4 Packing group

ADR, IMDG, IATA	III

14.5 Environmental hazards

Environmental hazards:	P roduct contains environmentally hazardous substances: Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

14.6 Special precautions for user

Special Precautions:	Warning: Flammable liquids.
Hazard ID number (Kemler code):	30
EMS Number:	F-E,S-E
Stowage Category:	A

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: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation"	UN 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

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 200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

National regulations:

Technical instructions (air):

Class	Share in %
I	0.3
NK	3.7

Waterhazard class: Water danger class 2 (Self-assessment): 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.

Full text of H-Statements referred to under sections 2 and 3:

H226	Flammable liquid and vapour.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.

H373	May cause damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

Acute Tox. 4	Acute toxicity - dermal – Category 4
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
Asp. Tox. 1	Aspiration hazard – Category 1
Carc. 2	Carcinogenicity – Category 2
CAS	Chemical Abstracts Service (division of the American Chemical Society)
DNEL	Derived No-Effect Level (REACH)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam. 1	Serious eye damage/eye irritation – Category 1
Eye Irrit. 2	Serious eye damage/eye irritation – Category 2
Flam. Liq. 3	Flammable liquids – Category 3
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration (REACH)
Repr. 1B	Reproductive toxicity – Category 1B
Repr. 2	Reproductive toxicity – Category 2
Skin Irrit. 2	Skin corrosion/irritation – Category 2
Skin Sens. 1	Skin sensitisation – Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) – Category 1
STOT SE 3	Specific target organ toxicity (single exposure) – Category 3
vPvB	very Persistent and very Bioaccumulative