



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

**1.1. Product identifier**

**SEAJET 033 SHOGUN**

Product code: 640VR - Version 3.1 - Revision Date: 10-02-2023

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

PT21 - Antifouling paint.

**1.3. Details of the supplier of the safety data sheet**

Chugoku Paints B.V., Sluisweg 12, 4794 SW Heijningen, Po Box 73, 4793 ZH Fijnaart, The Netherlands, Tel.+31-167-526100, E-mail: msdsregistration@cmpeurope.eu

**1.4. Emergency telephone number**

National Poisons Information Service: England & Wales / NHS dial 111, Scotland NHS 24, <http://www.npis.org>  
N.Ireland, Contact your local GP or pharmacist during normal hours, [www.gpoutofhours.hscni.net](http://www.gpoutofhours.hscni.net) for GP services Out-of-Hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP].**

Flam. Liq. 3 H226	Flammable liquid and vapour.
Eye Dam. 1 H318	Causes serious eye damage.
Skin Irrit. 2 H315	Causes skin irritation.
STOT SE 3 H335	May cause respiratory irritation.
Skin Sens. 1 H317	May cause an allergic skin reaction.
Repr. 2 H361	Suspected of damaging fertility or the unborn child.
Lact. H362	May cause harm to breast-fed children.
STOT RE 2 H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1 H400	Very toxic to aquatic life.
Aquatic Chronic 1 H410	Very toxic to aquatic life with long lasting effects.

**2.2. Label elements**



GHS02



GHS05



GHS07

**Hazard pictogram(s):**



GHS08



GHS09

**Signal word: Danger**

**Labelling according to Regulation (EC) No 1272/2008 [CLP]:**

**Hazard statement(s):**

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

**Supplemental hazard information (EU): Not applicable.**



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**Precautionary statement(s)**

## Prevention:

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.

P263: Avoid contact during pregnancy and while nursing.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P273: Avoid release to the environment.

## Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

P391: Collect spillage.

## Storage &amp; Disposal:

P501: Dispose of contents, container to a hazardous or special waste collection point.

**Contains (EC 1272/2008 18.3(b)):**

Cuprous(I)Oxide.

Xylene.

Rosin.

Zineb (ISO).

Chlorinated paraffins, C14-17 (52%).

Extended details regarding health and environment, see Section 11 &amp; 12.

**2.3. Other hazards**

This mixture contains Chlorinated paraffins, C14-17 (52%). The substance was assessed as PBT/vPvB.

Children shall be kept away until treated surfaces are dry.

Application, maintenance and repair activities shall be conducted within a contained area, on impermeable hard standing with bunding or on soil covered with an impermeable material to prevent losses and minimise emissions to the environment, and that any losses or waste shall be collected for reuse or disposal.

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

**3.2. Mixtures**

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List. (\*) For full text of H-statements, see SECTION 16.

Substance name	Identification number	% [weight]	Hazard statement Code(s) (*) / Hazard Class and Category Codes
Cuprous(I)Oxide.	EG-nr: 215-270-7 CAS-nr: 1317-39-1 Index: 029-002-00-X Reach#: 01-2119513794-36	25-30 %	H302 - Acute Tox. 4   H410 - Aquatic Chronic 1 H332 - Acute Tox. 4 H318 - Eye Dam. 1 H400 - Aquatic Acute 1 SCL / M-factor / ATE: H302-ATE 1340mg/kg bw, H332-ATE 3,34mg/l(Dust/Mist) - M(ac)=100 M(chr)=100
Xylene.	EG-nr: 215-535-7 CAS-nr: 1330-20-7 Index: 601-022-00-9 Reach#: 01-2119488216-32	15-20 %	H226 - Flam. Liq. 3   H319 - Eye Irrit. 2 H304 - Asp. Tox. 1   H332 - Acute Tox. 4 H312 - Acute Tox. 4   H335 - STOT SE 3 H315 - Skin Irrit. 2   H373 - STOT RE 2 SCL / M-factor / ATE: H312-ATE 1100, H332-ATE 29mg/l(Vap)
Rosin.	EG-nr: 232-475-7 CAS-nr: 8050-09-7 Index: 650-015-00-7 Reach#: 01-2119480418-32	5-10 %	H317 - Skin Sens. 1   -
Ethylbenzene.	EG-nr: 202-849-4 CAS-nr: 100-41-4 Index: 601-023-00-4 Reach#: 01-2119489370-35	5-10 %	H225 - Flam. Liq. 2   - H304 - Asp. Tox. 1   - H332 - Acute Tox. 4   - H373(**) - STOT RE 2   - SCL / M-factor / ATE: H332-ATE 17,6mg/l(Vap)
Zinc Oxide.	EG-nr: 215-222-5 CAS-nr: 1314-13-2 Index: 030-013-00-7 Reach#: 01-2119463881-32	1-5 %	H400 - Aquatic Acute 1   - H410 - Aquatic Chronic 1   -
Zineb (Iso).	EG-nr: 235-180-1 CAS-nr: 12122-67-7 Index: 006-078-00-2 Reach#: -	1-5 %	H228   H410 - Aquatic Chronic 1 H335 - STOT SE 3 H361d - Repr. 2 H317 - Skin Sens. 1
Butyl Cellosolve.	EG-nr: 203-905-0 CAS-nr: 111-76-2 Index: 603-014-00-0 Reach#: 01-2119475108-36	1-5 %	H332 - Acute Tox. 4   H315 - Skin Irrit. 2 H312 - Acute Tox. 4   - H302 - Acute Tox. 4   - H319 - Eye Irrit. 2   - SCL / M-factor / ATE: H302-ATE 500, H312-ATE 2000mg/kg bw, H332-ATE 11
Chlorinated Paraffins, C14-17 (52%).	EG-nr: 287-477-0 CAS-nr: 85535-85-9 Index: 602-095-00-X Reach#: 01-2119519269-33	0,1-1 %	H362 - Lact.   - H400 - Aquatic Acute 1   - H410 - Aquatic Chronic 1   - EUH066   - SCL / M-factor / ATE: - M(ac)=100 M(chr)=100

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Substance name	Identification number	% [weight]	Hazard statement Code(s) (*) / Hazard Class and Category Codes
Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.	EG-nr: 809-930-9	0,1-1 %	H361fd(*)
	CAS-nr: 1330-78-5		H400 - Aquatic Acute 1
	Index: -		H410 - Aquatic Chronic 1
	Reach#: 01-2119531335-46		-
Toluene.	EG-nr: 203-625-9	0,1-0,5 %	H225 - Flam. Liq. 2
	CAS-nr: 108-88-3		H361d(*) - Repr. 2
	Index: 601-021-00-3		H304 - Asp. Tox. 1
	Reach#: 01-2119471310-51		H373(*) - STOT RE 2
Epoxy Resin (Number Average Molecular Weight ≤ 700).	EG-nr: 500-033-5	0,1-0,5 %	H319 - Eye Irrit. 2
	CAS-nr: 25068-38-6		H315 - Skin Irrit. 2
	Index: 603-074-00-8		H317-(1B) - Skin Sens. 1B
	Reach#: 01-2119456619-26		H411 - Aquatic Chronic 2
			SCL / M-factor / ATE: Eye Irrit. 2; H319: C ≥ 5 %, Skin Irrit. 2; H315: C ≥ 5 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures



Pay attention to your own safety! In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### following inhalation:



Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### following skin contact:



Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

#### following eye contact:



Remove contact lenses, if present and easy to do. Irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### following ingestion:



If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Potential acute symptoms and effects

##### following inhalation:

Exposure to vapours may cause a health hazard. Serious effects may be delayed following exposure.

May cause respiratory irritation.

##### following skin contact:

Causes skin irritation.

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**following eye contact:**

Causes serious eye damage.

**following ingestion:**

No known significant effects or critical hazards.

**Potential delayed symptoms and effects****following inhalation:**

No specific data.

**following skin contact:**

May cause an allergic skin reaction.

**following eye contact:**

Adverse symptoms may include the following: irritation, watering, redness

**following ingestion:**

No specific data.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes to physician**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**

No specific treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Recommended: alcohol resistant foam, CO2, powders, water spray/mist.

**Extinguishing media which must not be used for safety reasons:**

Water jet. Zinc dust containing products should not be extinguished with water.

**5.2. Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. See Section 10.

**5.3. Advice for firefighters**

There is no one clothing material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Fire fighter's clothing conforming to European standard EN469 provides a basic level of protection for chemical incidents. Appropriate breathing apparatus may be required (Self-Contained Breathing Apparatus (SCBA)). Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

#N/A

For emergency responders: See Section 8 for information on appropriate personal protective equipment. See also the information: "For non-emergency personnel".

**6.2. Environmental precautions**

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Place in a suitable container. Clean preferably with a detergent - avoid use of solvents.

**6.4. Reference to other sections**

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

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Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses. Isolate from sources of heat, sparks and open flame. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

### Information regarding fire and explosion hazard

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

### Notes on joint storage

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

### Additional information on storage conditions

Observe label precautions. Store between 0°C and 40°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access.

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

### 7.3. Specific end use(s)

Application: Airless spray, Brush, Roller (See also Technical Data Sheet.) Spray: professional use only.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Limits for occupational exposure and / or biological limit values		
	LIMIT VALUES TWA8h - STEL15 ppm-mg/m <sup>3</sup>	LIMIT VALUES TWA8h - STEL15 ppm-mg/m <sup>3</sup>
Cuprous(I)Oxide.	TWA8h - ppm / 1(dust/mist) mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / 2(dust/mist) mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Xylene.	TWA8h 50 ppm / 220 mg/m <sup>3</sup>	TWA8h 50 ppm / 221 mg/m <sup>3</sup>
	STEL 100 ppm / 441 mg/m <sup>3</sup>	STEL15 100 ppm / 442 mg/m <sup>3</sup>
	Annotations Sk	Notation Skin
Rosin.	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Ethylbenzene.	TWA8h 100 ppm / 441 mg/m <sup>3</sup>	TWA8h 100 ppm / 442 mg/m <sup>3</sup>
	STEL 125 ppm / 552 mg/m <sup>3</sup>	STEL15 200 ppm / 884 mg/m <sup>3</sup>
	Annotations Sk	Notation Skin
Zinc Oxide.	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Zineb (Iso).	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Butyl Cellosolve.	TWA8h 25 ppm / 123 mg/m <sup>3</sup>	TWA8h 20 ppm / 98 mg/m <sup>3</sup>
	STEL 50 ppm / 246 mg/m <sup>3</sup>	STEL15 50 ppm / 246 mg/m <sup>3</sup>
	Annotations Sk	Notation Skin

Limits for occupational exposure and / or biological limit values		
	LIMIT VALUES TWA8h - STEL15 ppm-mg/m <sup>3</sup>	LIMIT VALUES TWA8h - STEL15 ppm-mg/m <sup>3</sup>
Chlorinated Paraffins, C14-17 (52%).	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -
Toluene.	TWA8h 50 ppm / 191 mg/m <sup>3</sup>	TWA8h 50 ppm / 192 mg/m <sup>3</sup>
	STEL 100 ppm / 384 mg/m <sup>3</sup>	STEL15 100 ppm / 384 mg/m <sup>3</sup>
	Annotations Sk	Notation Skin
Epoxy Resin (Number Average Molecular Weight ≤ 700).	TWA8h - ppm / - mg/m <sup>3</sup>	TWA8h - ppm / - mg/m <sup>3</sup>
	STEL - ppm / - mg/m <sup>3</sup>	STEL15 - ppm / - mg/m <sup>3</sup>
	Annotations -	Notation -

U.K. - TWA=Time Weighted Average (8hr) - STEL=Short-term exposure limit (15-minute reference period) - H.S.E. Health and Safety Commission.

Europe - TWA = Time Weight Average (8hr) - Measured or calculated in relation to a reference period of 8 hours time-weighted average (TWA) - STEL = Short-term exposure limit - A limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified - SCOEL

Annotations / Notations:

BMGVs: Biological monitoring guidance values.

Carc: Capable of causing cancer and/or heritable genetic damage.

Inh.: Inhalable fraction.

Resp.: Respirable fraction.

Sen: Capable of causing occupational asthma.

Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Skin: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.

DNEL - Not available.

PNEC - Not available.

## 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

### Individual protection measures, such as personal protective equipment

#### Personal Protection

##### Respiratory protection

If workers could be exposed to concentrations above the exposure limit they should use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours to EN14387, with an assigned protection factor of at least 10 (e.g. A2P3).

Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

##### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. At repeated or prolonged contact; use gloves tested according to EN 374. Viton-gloves offer good protection for intense contact with most solvents, e.g. complete immersion in solvent.




Nitrile gloves offer good protection during spray application. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. The breakthrough time must be greater than the end use time of the product.

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Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. USE PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

<b>Gloves for repeated or prolonged exposure (Permeation breakthrough times &gt; 480 min) - High Protection:</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
PVA Gloves	0,2-0,3mm	High
Butyl Viton Gloves	0,70mm	High
<b>Gloves for repeated or prolonged exposure (Permeation breakthrough times 240 - 480 min) - High Protection:</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
<b>Gloves for repeated or prolonged exposure (Permeation breakthrough times 120-240 min) - Medium Protection:</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
PVA Gloves	0,2-0,3mm	High
PVA Gloves	0,2-0,3mm	High
Butyl Viton Gloves	0,70mm	High
<b>Gloves for repeated or prolonged exposure (Permeation breakthrough times 60 - 120 min) - Medium Protection:</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
Polyethylene (PE) Gloves	0,062mm	High
PVA Gloves	0,2-0,3mm	High
Butyl Viton Gloves	0,70mm	High
<b>Gloves for short term exposure / splash protection (Permeation breakthrough times 30 - 60 min):</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
PVA Gloves	0,2-0,3mm	High
PVA Gloves	0,2-0,3mm	High
Butyl Viton Gloves	0,70mm	High
Nitrile Gloves	0,31mm	High
<b>Gloves for short term exposure / splash protection (Permeation breakthrough times 10 - 30 min):</b>		
<b>Material:</b>	<b>Minimum Thickness:</b>	<b>Chemical resistance:</b>
Polyethylene (PE) Gloves	0,062mm	High
PVA Gloves	0,2-0,3mm	High
Butyl Viton Gloves	0,70mm	High
Butyl Gloves	0,50mm	High
Nitrile Gloves	0,31mm	High
<b>Non suitable Gloves - non exhaustive list (Permeation breakthrough times &lt; 10 min):</b>		
<b>Material:</b>	<b>Thickness (or less):</b>	
Natural Rubber Gloves	0,75mm	
Nitrile Gloves	0,175mm	
Neoprene Gloves	0,75mm	
Butyl Gloves	0,3mm	

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-  **Eye/face protection**  
Use safety eyewear tested according to EN 166 designed to protect against splash of liquids.
-  **Skin protection**  
Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.
-  **Environmental exposure controls**  
Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties**

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

**(a) Physical state**

Liquid

**(b) Colour**

Diverse.

**(c) Odour**

Typical aromatic odour.

**(d) Melting point/freezing point**

Not applicable due to nature of the product.

**(e) Boiling point or initial boiling point and boiling range**

Not applicable due to nature of the product. Lowest Boiling Point: Methanol. - 64°C

**(f) Flammability**

Vapours are ignitable. See Flash point (h).

**(g) Lower and upper explosion limit**

The product itself is not explosive, but the formation of an explosive mixture of vapour or dust with air is possible.

Cuprous(I)Oxide.	Not applicable.
Xylene.	1.0-7.0%
Rosin.	Not applicable.
Ethylbenzene.	1.2-8.0%
Zinc Oxide.	Not applicable.
Zineb (Iso).	Not applicable.
Butyl Cellosolve.	1.1-10.6%
Chlorinated Paraffins, C14-17 (52%).	Not available.
Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.	Not available.
Toluene.	1.2-7%
Epoxy Resin (Number Average Molecular Weight ≤ 700).	Not applicable.

**(h) Flash point**

33°C - Method: ASTM D3278-96 (Re-appr.2004)

**(i) Auto-ignition temperature**

Not applicable due to nature of the product.

Lowest auto ignition temperature: Zineb (ISO). - 149°C

**(j) Decomposition temperature**

Not applicable due to nature of the product.

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**(k) pH**

Not applicable due to nature of the product. Mixture is non-soluble (in water).

**(l) Kinematic viscosity**

248 mm<sup>2</sup>/s @40°C - Method: ISO3219

Non-Newtonian liquid - thixotropic behaviour.

**(m) Solubility**

Not Soluble (in water).

**(n) Partition coefficient n-octanol/water (log value)**

Not applicable due to nature of the product.

**(o) Vapour pressure**

Cuprous(I)Oxide.	Not applicable.
Xylene.	8.0 mbar
Rosin.	0,6kPa
Ethylbenzene.	9.3 mbar
Zinc Oxide.	Not applicable.
Zineb (Iso).	neglible
Butyl Cellosolve.	1.0 mbar
Chlorinated Paraffins, C14-17 (52%).	0,00027hPa
Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.	0.00195 Pa
Toluene.	29mbar
Epoxy Resin (Number Average Molecular Weight ≤ 700).	< 0.01 mbar

**(p) Density and/or relative density**

Relative density 1,62 @ 20°C - Method: ASTM D1475-98

**(q) Relative vapour density**

1-2 @ 20°C - Method: Calculated.

**(r) Particle characteristics**

Not applicable due to nature of the product.

**9.2. Other information**

Information with regard to physical hazard classes

No relevant information.

Other safety characteristics

No relevant information.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see Section 7).

**10.3. Possibility of hazardous reactions**

In combination with oxidizing agents, strongly alkaline and strongly acid materials, exothermic reactions and/or explosive reactions may occur or toxic vapours may arise.

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**10.4. Conditions to avoid**

When exposed to high temperatures may produce hazardous decomposition products.

**10.5. Incompatible materials**

Keep away from oxidising agents, strongly alkaline and strongly acid materials.

**10.6. Hazardous decomposition products**

Carbon monoxide and dioxide, smoke, oxides of nitrogen, hydrochloric acid, etc.

**SECTION 11: Toxicological information**

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Rosin., Zineb (Iso)., Epoxy Resin (Number Average Molecular Weight ≤ 700). May produce an allergic reaction.

**Substance name**

Cuprous(I)Oxide. - LD50 Oral - 1340 mg/kg bw, Rat - LD50 Dermal - Not available. - LC50 Inhalation - Not available.

Xylene. - LD50 Oral - >2000 mg/kg, Rat - LD50 Dermal - >2000 mg/kg, Rat - LC50 Inhalation - 29 mg/lRat,4h

Rosin. - LD50 Oral - Not available. - LD50 Dermal - Not available. - LC50 Inhalation - Not available.

Ethylbenzene. - LD50 Oral - >3000 mg/kg, Rat - LD50 Dermal - >5000 mg/kg, Rabbit - LC50 Inhalation - 17,8 mg/lRat,4h

Zinc Oxide. - LD50 Oral - >5000 mg/kg, Rat - LD50 Dermal - Not available. - LC50 Inhalation - >5700 mg/m3Rat,4h

Zineb (Iso). - LD50 Oral - >2000 mg/kg, Rat - LD50 Dermal - >2500 mg/kgNot available. - LC50 Inhalation - >5 mg/lRat,4h

Butyl Cellosolve. - LD50 Oral - >200-2000 mg/kg, Rat - LD50 Dermal - >2000 mg/kg, Rabbit - LC50 Inhalation - 2-20 mg/lRat,4h

Chlorinated Paraffins, C14-17 (52%). - LD50 Oral - >2000 mg/kg (bw), Rat - LD50 Dermal - 4000 mg/kg, Rat - LC50 Inhalation - Not available.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. - LD50 Oral - >2000mg/kg, Rat - LD50 Dermal - >2000mg/kg, Rat - LC50 Inhalation - >11,1mg/lRat,1h

Toluene. - LD50 Oral - >2000 mg/kg, Rat - LD50 Dermal - >5000 mg/kg, Rabbit - LC50 Inhalation - 28,1 mg/lRat,4h

Epoxy Resin (Number Average Molecular Weight ≤ 700). - LD50 Oral - >15000 mg/kg, Rabbit - LD50 Dermal - 23000 mg/kg, Rabbit - LC50 Inhalation - Not available.

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**Conclusion/Summary on mixture****Acute toxicity:**

ATEmix (oral) : No specific data.  
ATEmix (Dermal) : No specific data.  
ATEmix (Inhalation) : No specific data.

**Skin corrosion/irritation:**

Conclusion/Summary on mixture: Causes skin irritation.

Method: Additivity approach, No testdata available.

**Serious eye damage/irritation:**

Conclusion/Summary on mixture: Causes serious eye damage.

Method: Additivity approach, no testdata available.

**Respiratory or skin sensitisation:**

Conclusion/Summary on mixture

Respiratory sensitization Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

Skin sensitization May cause an allergic skin reaction. Method: Concentration Limit, no testdata available.

**Germ cell mutagenicity:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**Carcinogenicity:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**Reproductive toxicity:**

Conclusion/Summary on mixture: Suspected of damaging fertility or the unborn child. Method: Concentration Limit, no testdata available.

**STOT - single exposure:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**STOT - repeated exposure:**

Conclusion/Summary on mixture: May cause damage to organs through prolonged or repeated exposure. Method: Concentration Limit, no testdata available.

**Aspiration hazard:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met.  
Justification: Additivity approach / Kinematic viscosity: 248 mm<sup>2</sup>/s @40°C - Measured

**Information on likely routes of exposure**

Inhalation: No known significant effects or critical hazards.

Ingestion: No specific data.

Skin exposure: Causes skin irritation. May cause an allergic skin reaction.

Eye exposure: Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**

Inhalation: Adverse symptoms may include the following: Cough

Ingestion: No specific data.

Skin exposure: Adverse symptoms may include the following: irritation, redness.

Eye exposure: Adverse symptoms may include the following: irritation, watering, redness.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure:**

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

**Long term exposure:**

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

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**Potential chronic health effects:**

**Conclusion/Summary on mixture**

General:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Other information:	No relevant information.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

No relevant information.

**Other information**

No relevant information.

**SECTION 12: Ecological information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and classified for eco-toxicological hazards accordingly.

**12.1. Toxicity**

**Substance name - Species - Exposure - Results**

Cuprous(I)Oxide. Acute (short-term) toxicity: Fish: LC50/96h 190-210 µg/l(Oncorhynchus mykiss), Crustacea: EC50/48h - 9.8 - 41.2 ppb (Daphnia Magna), Algae/aquatic plants: Not available., Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Xylene. Acute (short-term) toxicity: Fish: LC50/96h - 2.6 mg/l, Crustacea: EC50/48h 1-10 mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 2.2 mg/L (Pseudokirchneriella subcapitata), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC >1.3 mg/L (Salmo gairdneri), Crustacea: NOEC 0.96mg/L, Algae/aquatic plants: NOEC 0,44mg/L, Other organisms: Not available.

Rosin. Acute (short-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Ethylbenzene. Acute (short-term) toxicity: Fish: LC50/96h 4.2 mg/l (Oncorhynchus mykiss) / LC50/96 5.1 mg/L (Menidia menidia), Crustacea: EC50/48h 1.8 mg/l (Daphnia magna) / EC50/48h 2.6 mg/L (mysid shrimp), Algae/aquatic plants: EC50/96h 3.6 mg/L (Pseudokirchneriella subcapitata) / EC50/96h 7.7 mg/L (Skeletonema costatum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: NOEC 3.4 / NOEC 4.5 mg/L, Other organisms: Not available.

Zinc Oxide. Acute (short-term) toxicity: Fish: LC50 0,169 mg Zn/l (Oncorhynchus Mykiss), Crustacea: EC50/48h - 0.413 mg/l (Ceriodaphnia dubia), Algae/aquatic plants: EC50/72h - 0,137 mg/l (Selenastrum Capricornutum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 0.025 mg Zn/l, Crustacea: NOEC 82 µg/l, Algae/aquatic plants: NOEC 19 µg/l (Pseudokirchneriella subcapitata), Other organisms: Not available.

Zineb (Iso). Acute (short-term) toxicity: Fish: LC50/96h 7,2 mg/l(Fish), Crustacea: EC50/48h 0,97 mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 0,036mg/l (Algae), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Butyl Cellosolve. Acute (short-term) toxicity: Fish: LC50/96h 1474 mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h >100 mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 623 mg/l (pseudokirchneriella subcapitata), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOAEC (21 d) > 100mg/l, Crustacea: EC10 >100 mg/l (Daphnia magna), Algae/aquatic plants: NOEC 88 mg/l, Other organisms: Not available.

Chlorinated Paraffins, C14-17 (52%). Acute (short-term) toxicity: Fish: LC/96h >5000 mg/l (Alburnus alburnus), Crustacea: EC50/48h 0,006 mg/l (Daphnia magna), Algae/aquatic plants: EC50/96h >3,2 mg/l (Selenastrum capricornutum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 125 µg/l, Crustacea: NOEC 0.01 mg/L, Algae/aquatic plants: NOEC 0.1 mg/L, Other organisms: Not available.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. Acute (short-term) toxicity: Fish: LC50/96h 0,6mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h 0,146mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h0,4042mg/l (Desmodesmus subspicatus), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 0,01mg/l (Jordanella floridae), Crustacea: NOEC 0,1 mg/L (Daphnia magna), Algae/aquatic plants: NOEC 0,016mg/l (Desmodesmus subspicatus), Other organisms: Not available.

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**Substance name - Species - Exposure - Results**

Toluene. Acute (short-term) toxicity: Fish: LC50/96h 5.5 mg/l (Coho Salmon), Crustacea: EC50/48h 3.78 mg/l (Daphnia magna), Algae/aquatic plants: Not available., Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 1,4 mg/l, Crustacea: NOEC 0,74 mg/l, Algae/aquatic plants: NOEC 10 mg/l, Other organisms: Not available.

Epoxy Resin (Number Average Molecular Weight ≤ 700). Acute (short-term) toxicity: Fish: LC50/96h 2 mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h 1,8 mg/l (Daphnia magna), Algae/aquatic plants: ErC50/72h 11 mg/L (Scenedesmus capricornutum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: NOEC 0,3 mg/l, Algae/aquatic plants: NOEC 4.2 mg/L, Other organisms: Not available.

**12.2. Persistence and degradability**

**Substance name**

Cuprous(I)Oxide. - Readily biodegradable.

Xylene. - Readily biodegradable.

Rosin. - Readily biodegradable.

Ethylbenzene. - Readily biodegradable.

Zinc Oxide. - Readily biodegradable.

Zineb (Iso). - Readily biodegradable.

Butyl Cellosolve. - Readily biodegradable.

Chlorinated Paraffins, C14-17 (52%). - Readily biodegradable.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. - Readily biodegradable.

Toluene. - Readily biodegradable.

Epoxy Resin (Number Average Molecular Weight ≤ 700). - Not readily biodegradable.

**12.3. Bioaccumulative potential**

**Substance name**

**log Kow**

**BCF**

Cuprous(I)Oxide.

Not available.

Not available.

Xylene.

3,1

25,9

Rosin.

Not available.

<25-130

Ethylbenzene.

3,6

110 L/kg ww

Zinc Oxide.

Not available.

Not available.

Zineb (Iso).

≤1,3

Not available.

Butyl Cellosolve.

0,81

-

Chlorinated Paraffins, C14-17 (52%).

7

<2000 L/kg

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.

5,93

800 L/kg ww

Toluene.

2,65

90

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Substance name	log Kow	BCF
Epoxy Resin (Number Average Molecular Weight ≤ 700).	3,242	3 - 31

**12.4. Mobility in soil**

Soil/water partition coefficient (KOC) : Not available.  
 Mobility : No relevant information.

**12.5. Results of PBT and vPvB assessment**

This mixture contains Chlorinated paraffins, C14-17 (52%). The substance was assessed as PBT/vPvB.

**12.6. Endocrine disrupting properties**

No relevant information.

**12.7. Other adverse effects**

No relevant information.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**



Product / Packaging disposal: Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2000/532/EC) classification of this product. Waste codes / waste designations according to LoW: 07 04 99 Wastes not otherwise specified. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.  
 Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

**SECTION 14: Transport information**

	ADR / RID / ADN	IMDG-Code	IATA
<b>14.1. UN number or ID number</b>	UN 1263	UN 1263	UN 1263
<b>14.2. UN proper shipping name</b>	PAINT	PAINT	PAINT
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>Label(s)</b>			
<b>14.4. Packing group</b>	III	III	III

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	ADR / RID / ADN	IMDG-Code	IATA
<b>14.5. Environmental hazards</b>	Yes Environmental hazardous substances (aquatic environment) 	Yes Marine Pollutant: Yes  Marine Pollutant substance(s): Cuprous(I)Oxide., Zinc Oxide.	No
Additional information	Hazard Identification Number No.: 30	Emergency Schedule Number (EmS): F-E, S-E	

**14.6. Special precautions for user**

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

**SECTION 15: Regulatory information**

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

This antifouling paint is registered for use in U.K. under H.S.E.7373

The information in this Safety Data Sheet is required pursuant to Annex II to regulation (EC) No 1907/2006 and its amendments.

The provisions of the Health and Safety at Work etc. Act [and the Control of Substances Hazardous to Health Regulations] apply to the use of this product at work.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

\* Active substance: Cuprous(I)Oxide. / CAS 1317-39-1  
 Zineb (Iso). / CAS 12122-67-7

291g/kg.  
 39g/kg.

\* Note: Values given are based on theoretical calculations. Actual values could differ.

Seveso category (DIRECTIVE 2012/18/EU): P5c - E1 This product may add to the calculation for determining whether a site is within scope of the Seveso Directive on major accident hazards.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information**

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008**

**[CLP]:**

H226	Measured	H361	Concentration limit
H318	Additivity approach	H362	Concentration limit
H315	Additivity approach	H373	Concentration limit
H335	Additivity approach	H400	Summation method
H317	Concentration limit	H410	Summation method

**Abbreviations and acronyms:**

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE : Acute Toxicity Estimate  
 BCF : Bioconcentration factor  
 CLP : Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 DNEL : Derived No Effect Level

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IATA : International Air Transport Association  
 IMDG-Code : International Maritime Dangerous Goods  
 Kow : octanol-water partition coefficient  
 LC50 : Lethal Concentration to 50 % of a test population  
 LD50 : Lethal Dose to 50% of a test population (Median Lethal Dose)  
 PBT : Persistent, Bioaccumulative and Toxic substance  
 PNEC : Predicted No Effect Concentration(s)  
 RID : Regulations concerning the International Carriage of Dangerous Goods by Rail  
 STOT : Specific Target Organ Toxicity  
 vPvB : Very Persistent and Very Bioaccumulative

**Full text of Hazard Statements appearing in Section 3.2.:**

EUH066 Repeated exposure may cause skin dryness or cracking.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H228 Flammable solid.  
 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.  
 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.  
 H361d Suspected of damaging the unborn child.  
 H361d(\*) Suspected of damaging the unborn child via inhalation.  
 H361fd(\*) Suspected of damaging fertility or the unborn child if swallowed.  
 H362 May cause harm to breast-fed children.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H373(\*) May cause damage to central nervous system through prolonged or repeated exposure via inhalation.  
 H373-(\*\*) May cause damage to organs through prolonged or repeated exposure (hearing organs).  
 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.

Amendments: 10-02-2023, §2

This product does not contain organotin compounds acting as biocides and complies with the "International convention on the control of harmful Anti-fouling systems on ships as adopted by IMO in October 2001 (IMO document AFS/CONF/26)".  
 The information of this SDS is based on the present state of our knowledge and on current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.