# **SAFETY DATA SHEET**



# **Megayacht Imperial Antifouling**

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

#### 1.1 Product identifier

Product name : Megayacht Imperial Antifouling

**UFI** : 47CR-E2PM-C00C-7SY1

Product code : 30822
Product description : Paint.
Product type : Liquid.
Other means of : Not available.

identification

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

Use in coatings - Industrial use
Use in coatings - Professional use

### 1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

### **National contact**

Jotun Ibérica S.A. Poligon Industrial Santa Rita Calle Estàtica, no 3

08755 - Castellbisbal Barcelona

Tel: +34 93 771 18 00 Fax: +34 93 771 18 01 SDSJotun@jotun.com

### 1.4 Emergency telephone number

Jotun Ibérica S.A. Tel. +34 93 77 11 800 (8.00-17.00)

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335

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### **SECTION 2: Hazards identification**

STOT RE 2, H373 (nervous system)

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

Hazard pictograms











Signal word

: Danger.

**Hazard statements** 

H226 - Flammable liquid and vapour.

H302 + H332 - Harmful if swallowed or if inhaled.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

(nervous system)

H410 - Very toxic to aquatic life with long lasting effects.

### **Precautionary statements**

General

: Not applicable.

**Prevention** 

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray.

P270 - Do not eat, drink or smoke when using this product.

**Response** 

: P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

**Storage** 

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** 

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: dicopper oxide

xylene

hydrocarbons, C9, aromatics

colophony zineb

copper pyrithione

Supplemental label

elements

: Not applicable.

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### **SECTION 2: Hazards identification**

#### **Additional information**

: Antifouling. Active substances: dicopper oxide (CAS 1317-39-1) 31.7% w/w, zineb (CAS 12122-67-7) 3.9% w/w, copper pyrithione (CAS 14915-37-8) 1.5 % w/w. Do not reuse empty containers. Read Technical Data Sheet and Safety Data Sheet before use. For professional use only.

#### In compliance

: IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76).

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

### **Special packaging requirements**

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

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

### 3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers  | %         | Classification  | Specific Conc.<br>Limits, M-factors<br>and ATEs  | Туре    |
|-------------------------|--|-----------|---|--|---------|
| dicopper oxide          | REACH #:<br>01-2119513794-36<br>EC: 215-270-7<br>CAS: 1317-39-1<br>Index: 029-002-00-X | ≥25 - ≤50 | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410   | ATE [Oral] = 500<br>mg/kg<br>ATE [Inhalation<br>(dusts and mists)]<br>= 3.34 mg/l<br>M [Acute] = 100<br>M [Chronic] = 10 | [1] [2] |
| xylene                  | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412 | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 20 mg/<br>I  | [1] [2] |
| zinc oxide              | REACH #:<br>01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≥10 - ≤25 | Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410   | M [Acute] = 1<br>M [Chronic] = 1   | [1]     |
| ethylbenzene            | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4                         | <10       | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)   | ATE [Inhalation<br>(vapours)] = 17.8<br>mg/l   | [1] [2] |

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

|                             | Index: 601-023-00-4  |     | Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412  |  |         |
|-----------------------------|--|-----|--|--|---------|
| hydrocarbons, C9, aromatics | REACH #:<br>01-2119455851-35<br>EC: 265-199-0<br>CAS: 128601-23-0                      | ≤10 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411  | -  | [1]     |
| colophony                   | REACH #:<br>01-2119480418-32<br>EC: 232-475-7<br>CAS: 8050-09-7<br>Index: 650-015-00-7 | ≤5  | Skin Sens. 1, H317   | -  | [1] [2] |
| zineb                       | EC: 235-180-1<br>CAS: 12122-67-7<br>Index: 006-078-00-2                                | ≤5  | Flam. Sol. 1, H228<br>Skin Sens. 1, H317<br>Repr. 2, H361d<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410   | M [Acute] = 10<br>M [Chronic] = 10   | [1]     |
| copper pyrithione           | EC: 238-984-0<br>CAS: 14915-37-8   | <3  | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (nervous system) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 200 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.07 mg/l M [Acute] = 100 M [Chronic] = 100 | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### <u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**General** 

: 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.

**Eye contact** 

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

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### **SECTION 4: First aid measures**

Skin contact

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

Ingestion

: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations 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 the kidneys, 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.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea 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 colophony, zineb. May produce an allergic reaction.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

#### 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.

See toxicological information (Section 11)

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing** media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective** equipment for fire-fighters : Appropriate breathing apparatus may be required.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the 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 material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations 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.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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### **SECTION 7: Handling and storage**

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

### Information on fire and explosion protection

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

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.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### Seveso Directive - Reporting thresholds

#### **Danger criteria**

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |
| E1  | 100 tonne                       | 200 tonne               |

See Technical Data Sheet / packaging for further information.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

### SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

### Occupational exposure limits

| Product/ingredient name | Exposure limit values   |  |  |  |
|-------------------------|---|--|--|--|
| dicopper oxide          | National institute of occupational safety and health (Spain, 4/2021). |  |  |  |
|                         | TWA: 0.01 mg/m³, (as Cu) 8 hours. Form: Respirable fraction           |  |  |  |
| xylene                  | National institute of occupational safety and health (Spain,          |  |  |  |
|                         | 4/2021). Absorbed through skin.                                       |  |  |  |
|                         | STEL: 442 mg/m³ 15 minutes.   |  |  |  |
|                         | STEL: 100 ppm 15 minutes.   |  |  |  |
|                         | TWA: 221 mg/m <sup>3</sup> 8 hours.                                   |  |  |  |
|                         | TWA: 50 ppm 8 hours.  |  |  |  |
| ethylbenzene            | National institute of occupational safety and health (Spain,          |  |  |  |
| •                       | 4/2021). Absorbed through skin.                                       |  |  |  |
|                         | TWA: 100 ppm 8 hours.   |  |  |  |
|                         | TWA: 441 mg/m³ 8 hours.   |  |  |  |
|                         | STEL: 200 ppm 15 minutes.   |  |  |  |

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### SECTION 8: Exposure controls/personal protection

STEL: 884 mg/m<sup>3</sup> 15 minutes. colophony National institute of occupational safety and health (Spain, 4/2021). Skin sensitiser. copper pyrithione National institute of occupational safety and health (Spain, 4/2021). TWA: 0.01 mg/m³, (as Cu) 8 hours. Form: Respirable fraction

# procedures

Recommended monitoring: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

| Product/ingredient name | Type | Exposure                 | Value                  | Population                           | Effects  |
|-------------------------|------|--------------------------|------------------------|--------------------------------------|----------|
| dicopper oxide          | DNEL | Long term Oral           | 0.041 mg/<br>kg bw/day | General population                   | Systemic |
|                         | DNEL | Short term Oral          | 0.082 mg/<br>kg bw/day | General population                   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 1 mg/m³                | Workers                              | Local    |
|                         | DNEL | Long term<br>Inhalation  | 1 mg/m³                | Workers                              | Systemic |
|                         | DNEL | Long term Dermal         | 137 mg/kg<br>bw/day    | Workers                              | Systemic |
| xylene                  | DNEL | Long term<br>Inhalation  | 65.3 mg/m <sup>3</sup> | General population                   | Local    |
|                         | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup>  | General population                   | Local    |
|                         | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup>  | General population                   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 221 mg/m <sup>3</sup>  | Workers                              | Local    |
|                         | DNEL | Long term Oral           | 12.5 mg/<br>kg bw/day  | General population                   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 65.3 mg/m³             |                                      | Systemic |
|                         | DNEL | Long term Dermal         | 125 mg/kg<br>bw/day    | General population                   | Systemic |
|                         | DNEL | Long term Dermal         | 212 mg/kg<br>bw/day    | Workers                              | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 221 mg/m <sup>3</sup>  | Workers                              | Systemic |
|                         | DNEL | Short term<br>Inhalation | 442 mg/m <sup>3</sup>  | Workers                              | Local    |
|                         | DNEL | Short term<br>Inhalation | 442 mg/m <sup>3</sup>  | Workers                              | Systemic |
| zinc oxide              | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day     | Workers                              | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 5 mg/m³                | Workers                              | Systemic |
|                         | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day     | General<br>population<br>[Consumers] | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 2.5 mg/m³              | General<br>population<br>[Consumers] | Systemic |

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# **SECTION 8: Exposure controls/personal protection**

| •                           | •    |                          |                         |                                      |          |
|-----------------------------|------|--------------------------|-------------------------|--------------------------------------|----------|
|                             | DNEL | Long term Oral           | 0.83 mg/<br>kg bw/day   | General population                   | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 0.5 mg/m <sup>3</sup>   | [Consumers]<br>Workers               | Local    |
|                             | DNEL | Long term Oral           | 0.83 mg/<br>kg bw/day   | General<br>population                | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 2.5 mg/m <sup>3</sup>   | General population                   | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 5 mg/m³                 | Workers                              | Systemic |
|                             | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day      | General<br>population                | Systemic |
|                             | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day      | Workers                              | Systemic |
| ethylbenzene                | DNEL | Long term Oral           | 1.6 mg/kg<br>bw/day     | General<br>population                | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 15 mg/m³                | General population                   | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 77 mg/m³                | Workers                              | Systemic |
|                             | DNEL | Long term Dermal         | 180 mg/kg<br>bw/day     | Workers                              | Systemic |
|                             | DNEL | Short term<br>Inhalation | 293 mg/m³               | Workers                              | Local    |
|                             | DMEL | Long term<br>Inhalation  | 442 mg/m <sup>3</sup>   | Workers                              | Local    |
|                             | DMEL | Short term<br>Inhalation | 884 mg/m³               | Workers                              | Systemic |
| hydrocarbons, C9, aromatics | DNEL | Long term Dermal         | 12.5 mg/<br>kg bw/day   | Workers                              | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 151 mg/m³               | Workers                              | Systemic |
|                             | DNEL | Long term Dermal         | 7.5 mg/kg<br>bw/day     | General<br>population<br>[Consumers] | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 32 mg/m³                | General population [Consumers]       | Systemic |
|                             | DNEL | Long term Oral           | 7.5 mg/kg<br>bw/day     | General population                   | Systemic |
| colophony                   | DNEL | Long term Dermal         | 25 mg/kg<br>bw/day      | [Consumers]<br>Workers               | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 176 mg/m³               | Workers                              | Systemic |
|                             | DNEL | Long term Dermal         | 15 mg/kg<br>bw/day      | General<br>population<br>[Consumers] | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 52 mg/m³                | General population                   | Systemic |
|                             | DNEL | Long term Oral           | 15 mg/kg<br>bw/day      | [Consumers]<br>General<br>population | Systemic |
|                             | DNEL | Long term Oral           | 1.0655 mg/<br>kg bw/day | [Consumers]<br>General<br>population | Systemic |
|                             | DNEL | Long term Dermal         | 1.0655 mg/<br>kg bw/day | General<br>population                | Systemic |
|                             | DNEL | Long term Dermal         | 2.131 mg/<br>kg bw/day  | Workers                              | Systemic |
|                             | DNEL | Long term<br>Inhalation  | 10 mg/m³                | Workers                              | Local    |

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### **SECTION 8: Exposure controls/personal protection**

#### **PNECs**

| Fresh water   7.8 μg/l   -  |  |
|---|--|
| Sewage Treatment   Plant   Fresh water sediment   Soil   676 mg/kg dwt   - 676 mg/  |  |
| Plant   Fresh water sediment   Marine water sediment   Soil   676 mg/kg dwt   - 6   |  |
| Fresh water sediment   Marine water sediment   Soil   G56 mg/kg dwt   - G76 mg/kg dwt   - G77 mg/l   - G77 mg/kg dwt   - G77 mg/kg  |  |
| Marine water sediment   Soil   Soi   |  |
| Soil   65 mg/kg dwt   -   |  |
| Fresh water   0.327 mg/l   -  |  |
| Marine   0.327 mg/l   -   |  |
| Sewage Treatment Plant Fresh water sediment Marine water sediment Soil Zinc oxide  Fresh water  Fresh water  Fresh water  Fresh water  Sewage Treatment Sewage Treatment Plant Fresh water  Sewage Treatment Plant Fresh water sediment Marine water sediment Soil  Fresh water sediment Fresh water sediment Soil  |  |
| Plant Fresh water sediment Marine water sediment Soil  zinc oxide  Fresh water  Fresh water  2.31 mg/kg dwt  - 2.31 mg/kg dwt  - 4.46 mg/kg dwt  - 5.31 mg/kg dwt  - 5.4 µg/l  - 5.5 µg/l  - 7.5 µg/l  - 7.5 µg/l  - 8.6 µg/l  - 8.7 µg/l  - 8.8 µg/l  - 8.8 µg/l  - 8.9 µg/l  - 8.9 µg/l  - 8.0 µg/l |  |
| Plant Fresh water sediment Marine water sediment Soil  zinc oxide  Fresh water  Fresh water  2.31 mg/kg dwt  - 2.31 mg/kg dwt  - 4.46 mg/kg dwt  - 5.4 μg/l  - 5.4 μg/l  - 5.5 μg/l  - 7.5 μg/kg dwt  - 8.5 μg/kg dwt |  |
| Marine water sediment   12.46 mg/kg dwt   -   |  |
| Marine water sediment   12.46 mg/kg dwt   -   |  |
| Soil   2.31 mg/kg dwt   -   |  |
| zinc oxide   Fresh water   20.6 μg/l   -  |  |
| Marine Sewage Treatment Plant Fresh water sediment Marine water sediment Soil  6.1 μg/l 117.8 mg/kg dwt - 35.6 mg/kg dwt - 35.6 mg/kg dwt -   |  |
| Sewage Treatment Plant Fresh water sediment Marine water sediment Soil  52 µg/l   |  |
| Plant Fresh water sediment Marine water sediment Soil  117.8 mg/kg dwt - 56.5 mg/kg dwt - 35.6 mg/kg dwt -  |  |
| Marine water sediment   56.5 mg/kg dwt   -   35.6 mg/kg dwt   -   |  |
| Marine water sediment   56.5 mg/kg dwt   -   35.6 mg/kg dwt   -   |  |
| Soil   35.6 mg/kg dwt   -   |  |
|   |  |
|   |  |
| Marine 0.01 mg/l -  |  |
| Sewage Treatment 9.6 mg/I   |  |
| Plant   |  |
| Fresh water sediment   13.7 mg/kg dwt   -   |  |
| Soil   2.68 mg/kg dwt   -   |  |
| Secondary Poisoning 20 mg/kg -  |  |
| colophony Fresh water 0.0054 mg/l -   |  |
| Marine 0.00054 mg/l -   |  |
| Sewage Treatment 1000 mg/l -  |  |
| Plant   |  |
| Fresh water sediment   0.02 mg/kg dwt   -   |  |
| Marine water sediment   0.002 mg/kg dwt   -   |  |
| Soil   0.0015 mg/kg dwt   -   |  |

### 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 vapours below the OEL, suitable respiratory protection must be worn.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

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### **SECTION 8: Exposure controls/personal protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

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 but should not be applied once exposure has occurred.

### **Gloves**

Wear suitable gloves tested to ISO 374-1:2016.

Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), nitrile rubber (> 0.4 mm), 4H/ Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** 

: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

Environmental exposure

: Do not allow to enter drains or watercourses.

controls

### SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state : Liquid.

Colour : Red, Blue., Black
Odour : Characteristic.
Odour threshold : Not applicable.

Melting point/freezing point : Not applicable.

Initial boiling point and

: Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average:

**boiling range** 142.69°C (288.8°F)

Flammability
Lower and upper explosion

: Not applicable.: 0.8 - 7.6%

limit

Flash point : Closed cup: 25°C

**Auto-ignition temperature** : Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9,

aromatics).

Decomposition temperature : Not available.pH : Not applicable.

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### SECTION 9: Physical and chemical properties

**Viscosity** : Kinematic (40°C): >20.5 mm<sup>2</sup>/s Solubility in water cold water Not soluble

> Not soluble hot water

Partition coefficient: n-octanol/ : Not available.

water

: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted Vapour pressure

average: 0.85 kPa (6.38 mm Hg) (at 20°C)

**Evaporation rate** : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared

with butyl acetate

: 1.661 to 1.669 g/cm<sup>3</sup> **Density** 

Vapour density Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)

**Explosive properties** : Not available. : Not available. **Oxidising properties** 

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

hazardous reactions

No additional 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 : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous Decomposition products may include the following materials: carbon monoxide, decomposition products carbon dioxide, smoke, oxides of nitrogen.

# SECTION 11: Toxicological information

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations 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 the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, 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.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea 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 colophony, zineb. May produce an allergic reaction.

**Acute toxicity** 

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# **SECTION 11: Toxicological information**

| Product/ingredient name | Result                          | Species    | Dose        | Exposure |
|-------------------------|---------------------------------|------------|-------------|----------|
| dicopper oxide          | LC50 Inhalation Dusts and mists | Rat        | 3.34 mg/l   | 4 hours  |
|                         | LD50 Oral                       | Rat        | 1340 mg/kg  | -        |
| xylene                  | LC50 Inhalation Vapour          | Rat        | 20 mg/l     | 4 hours  |
|                         | LD50 Oral                       | Rat        | 4300 mg/kg  | -        |
|                         | TDLo Dermal                     | Rabbit     | 4300 mg/kg  | -        |
| ethylbenzene            | LC50 Inhalation Vapour          | Rat - Male | 17.8 mg/l   | 4 hours  |
|                         | LD50 Dermal                     | Rabbit     | >5000 mg/kg | -        |
|                         | LD50 Oral                       | Rat        | 3500 mg/kg  | -        |
| zineb                   | LD50 Oral                       | Rat        | 1850 mg/kg  | -        |
| copper pyrithione       | LC50 Inhalation Dusts and       | Rat        | 70 mg/m³    | 4 hours  |
|                         | mists                           |            |             |          |
|                         | LD50 Dermal                     | Rabbit     | 300 mg/kg   | -        |
|                         | LD50 Oral                       | Rat        | 200 mg/kg   | -        |

### **Acute toxicity estimates**

| Product/ingredient name        | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Megayacht Imperial Antifouling | 1412.8           | 4798.7            | N/A                            | 82.8                              | 3.3  |
| dicopper oxide                 | 500              | N/A               | N/A                            | N/A                               | 3.34   |
| xylene                         | 4300             | 1100              | N/A                            | 20                                | N/A  |
| ethylbenzene                   | 3500             | N/A               | N/A                            | 17.8                              | N/A  |
| copper pyrithione              | 200              | 300               | N/A                            | N/A                               | 0.07   |

### **Irritation/Corrosion**

| Product/ingredient name | Result                             | Species                            | Score | Exposure               | Observation |
|-------------------------|------------------------------------|------------------------------------|-------|------------------------|-------------|
| dicopper oxide          | Eyes - Cornea opacity              | Rabbit                             | -     | 72 hours               | -           |
|                         | Eyes - Redness of the conjunctivae | Rabbit                             | -     | 48 hours               | -           |
| xylene                  | Eyes - Mild irritant               | Rabbit                             | -     | 87 milligrams          | -           |
|                         | Skin - Mild irritant               | Rat                                | -     | 8 hours 60 microliters | -           |
| zinc oxide              | Eyes - Mild irritant               | Rabbit                             | -     | 24 hours 500<br>mg     | -           |
|                         | Skin - Mild irritant               | Rabbit                             | -     | 24 hours 500<br>mg     | -           |
| copper pyrithione       | Eyes - Severe irritant             | Mammal -<br>species<br>unspecified | -     | -                      | -           |
|                         | Skin - Irritant                    | Mammal -<br>species<br>unspecified | -     | -                      | 1           |

### **Sensitisation**

| Product/ingredient name | Route of exposure | Species                      | Result      |
|-------------------------|-------------------|------------------------------|-------------|
| colophony               | skin              | Mammal - species unspecified | Sensitising |
| zineb                   | skin              | Mammal - species unspecified | Sensitising |

### **Mutagenicity**

No known significant effects or critical hazards.

### **Carcinogenicity**

No known significant effects or critical hazards.

### **Reproductive toxicity**

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## **SECTION 11: Toxicological information**

| Product/ingredient name | Maternal toxicity | Fertility | Developmental<br>toxin | Species     | Dose                         | Exposure |
|-------------------------|-------------------|-----------|------------------------|-------------|------------------------------|----------|
| zineb                   | -                 | -         |                        | unspecified | Route of exposure unreported | -        |
| copper pyrithione       | -                 | -         |                        | ا .م. ا     | Route of exposure unreported | -        |

Developmental effects : Suspected of damaging the unborn child.

Fertility effects : No known significant effects or critical hazards.

**Teratogenicity** 

Suspected of damaging the unborn child.

### Specific target organ toxicity (single exposure)

| Product/ingredient name     | Category   | Route of exposure | Target organs                |
|-----------------------------|------------|-------------------|------------------------------|
| xylene                      | Category 3 | -                 | Respiratory tract irritation |
| hydrocarbons, C9, aromatics | Category 3 | -                 | Respiratory tract irritation |
|                             | Category 3 |                   | Narcotic effects             |
| zineb                       | Category 3 | -                 | Respiratory tract irritation |
| copper pyrithione           | Category 3 | -                 | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name           | Category                 | Route of exposure | Target organs                 |
|-----------------------------------|--------------------------|-------------------|-------------------------------|
| ethylbenzene<br>copper pyrithione | Category 2<br>Category 1 | -                 | hearing organs nervous system |

### **Aspiration hazard**

| Product/ingredient name                               | Result   |
|---|--|
| xylene<br>ethylbenzene<br>hydrocarbons, C9, aromatics | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

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

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# **SECTION 12: Ecological information**

| Product/ingredient name     | Result                                  | Species   | Exposure  |
|-----------------------------|---|---|-----------|
| dicopper oxide              | Acute LC50 0.075 mg/l Fresh water       | Fish - Danio rerio                                    | 96 hours  |
|                             | Chronic NOEC 0.001 mg/l                 | Algae   | -         |
|                             | Chronic NOEC 0.0052 mg/l                | Algae   | -         |
| xylene                      | Acute LC50 8500 μg/l Marine water       | Crustaceans - Palaemonetes pugio                      | 48 hours  |
|                             | Acute LC50 13400 μg/l Fresh water       | Fish - Pimephales promelas                            | 96 hours  |
| zinc oxide                  | Acute LC50 1.1 ppm Fresh water          | Fish - Oncorhynchus mykiss                            | 96 hours  |
|                             | Chronic NOEC 0.02 mg/l Fresh water      | Algae - Pseudokirchneriella subcapitata - Exponential | 72 hours  |
|                             |   | growth phase  |           |
| ethylbenzene                | Acute EC50 7700 µg/l Marine water       | Algae - Skeletonema costatum                          | 96 hours  |
| _                           | Acute EC50 2.93 mg/l                    | Daphnia   | 48 hours  |
|                             | Acute LC50 4.2 mg/l                     | Fish  | 96 hours  |
| hydrocarbons, C9, aromatics | Acute EC50 <10 mg/l                     | Daphnia   | 48 hours  |
|                             | Acute IC50 <10 mg/l                     | Algae   | 72 hours  |
|                             | Acute LC50 <10 mg/l                     | Fish  | 96 hours  |
| zineb                       | Acute EC50 0.38 mg/l Fresh water        | Algae - Pseudokirchneriella subcapitata               | 96 hours  |
|                             | Acute LC50 970 to 1800 μg/l Fresh water | Daphnia - Daphnia magna                               | 48 hours  |
|                             | Acute LC50 0.225 mg/l                   | Fish  | 96 hours  |
|                             | Acute LC50 20.8 ppm Fresh water         | Fish - Oncorhynchus mykiss                            | 96 hours  |
|                             | Chronic NOEC 0.05 mg/l Fresh water      | Algae - Chlorella vulgaris                            | 96 hours  |
|                             | Chronic NOEC 0.05 mg/l Fresh water      | Algae - Scenedesmus quadricauda                       | 96 hours  |
| copper pyrithione           | Acute EC50 0.022 mg/l                   | Daphnia   | 48 hours  |
|                             | Acute IC50 0.035 mg/l                   | Algae   | 120 hours |
|                             | Acute LC50 0.0043 mg/l                  | Fish  | 96 hours  |
|                             | Chronic NOEC 0.00046 mg/l               | Algae - Skeletonema costatum                          | 120 hours |

**Conclusion/Summary** 

: Water polluting material. May be harmful to the environment if released in large quantities. This material is very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

| Product/ingredient name     | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| dicopper oxide              | -                 | -          | Not readily      |
| xylene                      | -                 | -          | Readily          |
| zinc oxide                  | -                 | -          | Not readily      |
| ethylbenzene                | -                 | -          | Readily          |
| hydrocarbons, C9, aromatics | -                 | -          | Not readily      |

### 12.3 Bioaccumulative potential

| Product/ingredient name     | LogPow     | BCF         | Potential |
|-----------------------------|------------|-------------|-----------|
| xylene                      | 3.12       | 8.1 to 25.9 | low       |
| zinc oxide                  | -          | 28960       | high      |
| ethylbenzene                | 3.6        | -           | low       |
| hydrocarbons, C9, aromatics | -          | 10 to 2500  | high      |
| colophony                   | 1.9 to 7.7 | -           | high      |
| zineb                       | 1.3        | -           | low       |

**12.4 Mobility in soil** 

Soil/water partition : Not available.

coefficient (Koc)

Mobility : Not available.

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### **SECTION 12: Ecological information**

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### **Hazardous waste**

: Yes.

**Disposal considerations** 

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

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.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation   |
|------------|---|
| 08 01 11*  | Waste paint and varnish containing organic solvents or other dangerous substances |

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### **Disposal considerations**

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions.

|                   | 3 1       |  |
|-------------------|-----------|--|
| Type of packaging |           | European waste catalogue (EWC)   |
| CEPE Guidelines   | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

#### Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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### **SECTION 14: Transport information**

|                                  | ADR/RID | ADN    | IMDG                                     | IATA   |
|----------------------------------|---------|--------|--|--|
| 14.1 UN number or ID number      | UN1263  | UN1263 | UN1263                                   | UN1263   |
| 14.2 UN proper shipping name     | Paint   | Paint  | Paint. Marine pollutant (dicopper oxide) | Paint  |
| 14.3 Transport hazard class(es)  | 3       | 3      | 3  | 3  |
| 14.4 Packing group               | III     | III    | III                                      | III  |
| 14.5<br>Environmental<br>hazards | Yes.    | Yes.   | Yes.                                     | Yes. The environmentally hazardous substance mark is not required. |

### **Additional information**

ADR/RID

: The environmentally hazardous substance mark is not required when transported in

sizes of ≤5 L or ≤5 kg.

<u>Hazard identification number</u> 30

Special provisions 640E

Tunnel code (D/E)

**ADN** 

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IMDG** 

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-E, S-E

**IATA** 

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for

user

: **Transport within 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 available.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

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### SECTION 15: Regulatory information

### **Other EU regulations**

VOC

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: Not available.

: Listed

: Not listed

**Industrial emissions** (integrated pollution

prevention and control) -

Air

**Industrial emissions** (integrated pollution

prevention and control) -

Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

| Annex            | Ingredient name | Status |
|------------------|-----------------|--------|
| Annex I - Part 1 | zineb           | Listed |

### **Persistent Organic Pollutants**

Not listed.

#### **Seveso Directive**

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

### **National regulations**

Industrial use

: 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. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety

assessment

: Not applicable.

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### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                   | Justification         |
|----------------------------------|-----------------------|
| Flam. Liq. 3, H226               | On basis of test data |
| Acute Tox. 4, H302               | Calculation method    |
| Acute Tox. 4, H332               | Calculation method    |
| Skin Irrit. 2, H315              | Calculation method    |
| Eye Dam. 1, H318                 | Calculation method    |
| Skin Sens. 1, H317               | Calculation method    |
| Repr. 2, H361d                   | Calculation method    |
| STOT SE 3, H335                  | Calculation method    |
| STOT RE 2, H373 (nervous system) | Calculation method    |
| Aquatic Acute 1, H400            | Calculation method    |
| Aquatic Chronic 1, H410          | Calculation method    |

### Full text of abbreviated H statements

| H225  | Highly flammable liquid and vapour.                                |
|-------|--|
| H226  | Flammable liquid and vapour.                                       |
| H228  | Flammable solid.   |
| H301  | Toxic if swallowed.  |
| H302  | Harmful if swallowed.  |
| H304  | May be fatal if swallowed and enters airways.                      |
| H311  | Toxic in contact with skin.  |
| 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.                                     |
| H330  | Fatal if inhaled.  |
| H332  | Harmful if inhaled.  |
| H335  | May cause respiratory irritation.                                  |
| H336  | May cause drowsiness or dizziness.                                 |
| H361d | Suspected of damaging the unborn child.                            |
| 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.                 |

### Full text of classifications [CLP/GHS]

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### **SECTION 16: Other information**

| Acute Tox. 2      | ACUTE TOXICITY - Category 2                                     |
|-------------------|---|
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1                  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1                 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Flam. Sol. 1      | FLAMMABLE SOLIDS - Category 1                                   |
| 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 RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

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