

SAFETY DATA SHEET



Racing

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

1.1 Product identifier

Product name : Racing
Product code : 272
Product description : Paint.
Product type : Liquid.
Other means of identification : Not available.

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

Use in coatings - Consumer use: Apply this product only as specified on the label.

Use in coatings - Professional use

1.3 Details of the supplier of the safety data sheet

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National contact

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1.4 Emergency telephone number

CAV "Ospedale Pediatrico Bambino Gesù" – Roma - Tel. (+39) 06.6859.3726
CAV "Azienda Ospedaliera Università di Foggia" – Foggia - Tel. 800.183.459
CAV "Azienda Ospedaliera A. Cardarelli" – Napoli - Tel. (+39) 081.545.3333
CAV Policlinico "Umberto I" – Roma - Tel. (+39) 06.4997.8000
CAV Policlinico "A. Gemelli" – Roma - Tel. (+39) 06.305.4343
CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze - Tel. (+39) 055.794.7819
CAV Centro Nazionale di Informazione Tossicologica – Pavia - Tel. (+39) 0382.24.444
CAV Ospedale Niguarda – Milano - Tel. (+39) 02.66.1010.29
CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo - Tel. 800.88.33.00
CAV Centro Antiveneni Veneto – Verona - Tel. 800.011.858

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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

Eye Dam. 1, H318

Skin Sens. 1, H317

STOT SE 3, H335

STOT SE 3, H336

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 - Harmful if swallowed.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

General :

- 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.

Prevention :

- P280 - Wear protective gloves.
- P280 - Wear eye or face protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P261 - Avoid breathing vapour.
- P270 - Do not eat, drink or smoke when using this product.
- P264 - Wash hands thoroughly after handling.

Response :

- P391 - Collect spillage.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P330 - Rinse mouth.
- P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 :

- P405 - Store locked up.
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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SECTION 2: Hazards identification

| | |
|--|---|
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | :  dicopper oxide hydrocarbons, C9, aromatics colophony |
| Supplemental label elements | : Not applicable. |
| Additional information | :  Antifouling products. Active substances: dicopper oxide (CAS 1317-39-1) 35.59 % w/w. |
| Additional information Consumer | : Field(s) of use: Outdoor. Vessel category: 1. Paint for leisure crafts with a hull length of maximum 24 meter and a berth in marine environment. Application method(s): Brush, roller. Vessel Cat. 1: Annual application (maintenance): 1 coat (DFT 40 µm) per year. Application rate: 0.08 L/m ² . In case of a first launching of a brand new boat, ensure that there are no unpainted areas. Comply with the instructions for use. The surface must be clean and dry. Products must be stirred well to a homogenous solution prior to use. Frequently stirring during use is recommended. Apply the product uniformly on the surfaces to be treated at the application rate so that efficacy is ensured during at least single fouling season. The coating must be dry before immersion. The users should report straightforward to the registration holder in case of inefficacy. Risk mitigation measures: Brush and roller application including washing out of brush: Chemical goggles. Chemical resistant gloves (EN 374). Long sleeved shirt and trousers/ Protective coated coverall (e.g., type 6, EN 13034). Removing paint by dry sanding: Chemical goggles. Dust mask (respiratory mask with an assigned protection factor of 4) should be worn by non-professionals when removing antifouling paint by dry grinding. Chemical resistant gloves (EN 374). Coverall or long sleeved shirt and trousers. Use only outdoors or in a well-ventilated area. Avoid breathing vapor/mist/dust. Avoid contact with skin and eyes. Wash hands after handling/use. Wash contaminated clothing before reuse. Appropriate gloves should be supplied with products for nonprofessional users to ensure use of gloves when applying the product. Children should be kept away from the painted boat until the paint is dry. Unprotected persons should be kept out of treatment areas. Avoid release to the environment. Application, maintenance and repair activities shall (1) be conducted within a contained area to prevent losses and minimize emissions to the environment, meaning (2) on an impermeable hard standing with bunding or (3) on soil covered with an impermeable material. Any losses or waste containing dicopper oxide shall be collected for reuse or disposal. If medical advice is needed, have product container or label at hand. IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor. IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance. IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance. Application solutions must be collected and disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer. Keep out of reach of children and non-target animals/pets. Keep the containers in a dry, cool, well-ventilated place and away from sources of heat and ignition. Do not store at temperatures above 30°C. Containers must be kept tightly closed. Hazardous waste due to toxicity. EUH208 - Contains methyl methacrylate and n-butyl methacrylate. May produce an allergic reaction. Total binder range (including solvents): 13.00-20.00 % (Red/Black), 12.00-20.00 % (Blue/Dark Blue) |

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SECTION 2: Hazards identification**Additional information
Professional**

For professional use only. Field(s) of use: Indoor. Outdoor. Vessel categories: 1. Paint for leisure crafts with a hull length of maximum 24 meter and a berth in marine environment. 3. Paint for seagoing vessels for trade or business, naval and governmental vessels, and on super yachts (marine water). Other structures in marine water like: Mariculture equipment other than fish nets (such as lobster pots), buoys and other small objects, sluice doors, harbour constructions, inlet pipes of e.g. cooling systems, marine sensors, offshore constructions. The products are not intended for use in aquaculture.

Application method(s): Brush, roller, airless spray. Vessel Cat. 1: Annual application (maintenance): 1 coat (DFT 40 µm) per year. Application rate: 0.08 L/m². In case of a first launching of a brand new boat, ensure that there are no unpainted areas. Vessel Cat. 3: Drydock interval: 12 months. Max total DFT of 100 µm (one coat of 100 µm or two coats of 50 µm). Application rate: 0.2 L/m². Other structures: Application rate may vary (0.08-0.2 L/m²). Please consult with the authorisation holder. The surface must be clean and dry. Products must be stirred well to a homogenous solution prior to use. Frequently stirring during use is recommended. Apply the product uniformly on the surfaces to be treated at the application rate so that efficacy is ensured during at least single fouling season. The coating must be dry before immersion. The users should report straightforward to the registration holder in case of inefficacy.

Risk mitigation measures: Spraying and cleaning of spray equipment: Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374). Chemical goggles or face shield (EN 166). A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information). Respiratory protection with an assigned protection factor (APF) of at least 10. Potman including cleaning spray equipment: Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374). Chemical goggles or face shield (EN 166). A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information). Respiratory protection with an assigned protection factor (APF) of at least 10. Brush and roller application: Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374). Chemical goggles or face shield (EN 166). A protective coverall (at least type 6, EN-13034) (coverall material to be specified by the authorisation holder within the product information). Respiratory protection with an assigned protection factor (APF) 10. Sandblasting and gritfilling: Chemical resistant gloves (4H, teflon, nitrile rubber or polyvinyl alcohol (PVA) gloves) (EN 374). Chemical goggles or face shield (EN 166). A double coverall, a chemically resistant (at least type 3, EN-14605) coverall which is impermeable for the biocidal product (coverall material to be specified by the authorisation holder within the product information) with at least a long-sleeve, long-leg cotton coverall underneath. Respiratory protection with an assigned protection factor (APF) of at least 10.

Use only outdoors or in a well-ventilated area. Avoid breathing vapor/mist/dust. Avoid contact with skin and eyes. Wash hands after handling/use. Wash contaminated clothing before reuse. Appropriate gloves should be supplied with products for nonprofessional users to ensure use of gloves when applying the product. Children should be kept away from the painted boat until the paint is dry. Unprotected persons should be kept out of treatment areas. Avoid release to the environment. Application, maintenance and repair activities shall (1) be conducted within a contained area to prevent losses and minimize emissions to the environment, meaning (2) on an impermeable hard standing with bunding or (3) on soil covered with an impermeable material. Any losses or waste containing dicopper oxide shall be collected for reuse or disposal.

IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor. IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance. IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at

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SECTION 2: Hazards identification

least 15 minutes. Call 112/ambulance for medical assistance. Application solutions must be collected and disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer.

Keep the containers in a dry, cool, well-ventilated place and away from sources of heat and ignition. Do not store at temperatures above 30°C. Containers must be kept tightly closed. Hazardous waste due to toxicity.

EUH208 - Contains methyl methacrylate and n-butyl methacrylate. May produce an allergic reaction.

Total binder range (including solvents): 13.00-20.00 % (Red/Black), 12.00-20.00 % (Blue/Dark Blue)

Type of formulation: AL – Any other liquid. Use Biocides Safely and Sustainably. It is illegal to use this product for uses or in a manner other than that prescribed on this label. Poison Information (Applicable for Ireland only): For information or to report a poisoning incident contact The National Poisons Information Centre, Beaumont Hospital, Dublin (01-809 2166), retain the label for reference.

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 fastenings : Not applicable.

Tactile warning of danger : Yes, 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. Limits, M-factors and ATEs | Type |
|-----------------------------|--|-----|--|---|------|
| dicopper oxide | REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X | ≤50 | Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10 | [1] |
| hydrocarbons, C9, aromatics | REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0 | ≤25 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | - | [1] |

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

| | | | | | |
|---------------------------------|--|-----|--|----------------------------------|---------|
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≤25 | EUH066 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| colophony | REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 | ≤10 | Skin Sens. 1, H317 | - | [1] |
| 2-methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≤5 | Flam. Liq. 3, H226 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above. | - | [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.

Type

[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.
- 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 delayedOver-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

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SECTION 4: First aid measures

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, 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.

Racing**SECTION 6: Accidental release measures**

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.
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**

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

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.


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.

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---------------------------------|---|
| 2-methoxy-1-methylethyl acetate | <p>Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin.</p> <p>Short Term: 550 mg/m³ 15 minutes. Short Term: 100 ppm 15 minutes. Limit value: 275 mg/m³ 8 hours. Limit value: 50 ppm 8 hours.</p> |

| | |
|---|---|
| <p>Recommended monitoring procedures</p> | <p>: 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.</p> |
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DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|------|-----------------------|--------------------|--------------------------------|----------|
|  dicopper oxide hydrocarbons, C9, aromatics | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 137 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Oral | 0.041 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.082 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 12.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 151 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 7.5 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 32 mg/m³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 7.5 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 0.41 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 1.9 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 178.57 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 640 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 837.5 mg/m³ | Workers | Local |

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SECTION 8: Exposure controls/personal protection

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|---------------------------------|------|-----------------------|---------------------------|--------------------------------|----------|
| zinc oxide | DNEL | Short term Inhalation | 1066.67 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 1152 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 1286.4 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 5 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 2.5 mg/m ³ | General population [Consumers] | Systemic |
| colophony | DNEL | Long term Oral | 0.83 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 25 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 176 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 15 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 52 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 15 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 153.5 mg/kg bw/day | Workers | Systemic |
| 2-methoxy-1-methylethyl acetate | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 54.8 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 1.67 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 33 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 36 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 320 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 550 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 796 mg/kg bw/day | Workers | Systemic |
| | | | | | |

PNECs

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---------------------------------|------------------------|------------------|---------------|
| copper oxide | Fresh water | 7.8 µg/l | - |
| | Marine | 5.2 µg/l | - |
| | Sewage Treatment Plant | 230 µg/l | - |
| | Fresh water sediment | 87 mg/kg dwt | - |
| zinc oxide | Marine water sediment | 676 mg/kg dwt | - |
| | Soil | 65 mg/kg dwt | - |
| | Fresh water | 20.6 µg/l | - |
| | Marine | 6.1 µg/l | - |
| colophony | Sewage Treatment Plant | 52 µg/l | - |
| | Fresh water sediment | 117.8 mg/kg dwt | - |
| | Marine water sediment | 56.5 mg/kg dwt | - |
| | Soil | 35.6 mg/kg dwt | - |
| 2-methoxy-1-methylethyl acetate | Fresh water | 0.0054 mg/l | - |
| | Marine | 0.00054 mg/l | - |
| | Sewage Treatment Plant | 1000 mg/l | - |
| | Fresh water sediment | 0.02 mg/kg dwt | - |
| | Marine water sediment | 0.002 mg/kg dwt | - |
| | Soil | 0.0015 mg/kg dwt | - |
| | Fresh water | 0.635 mg/l | - |
| | Marine | 0.0635 mg/l | - |
| | Sewage Treatment Plant | 100 mg/l | - |
| | Fresh water sediment | 3.29 mg/kg dwt | - |
| | Marine water sediment | 0.329 mg/kg dwt | - |
| | Soil | 0.29 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**

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.

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

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.

Recommended, gloves(breakthrough time) > 8 hours: butyl rubber (> 0.4 mm), PVC (> 0.5 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.75 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 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** : Use chemical-resistant protective suit / disposable overall.
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 controls** : Do not allow to enter drains or watercourses.

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** : Black, Blue., Grey, Red, White.
- Odour** : Characteristic.
- Odour threshold** : Not applicable.
- Melting point/freezing point** : ☒ Not available.
- Initial boiling point and boiling range** : ☒ Lowest known value: 145.8°C (294.4°F) (2-methoxy-1-methylethyl acetate).
Weighted average: 176.52°C (349.7°F)
- Flammability** : Not applicable.
- Lower and upper explosion limit** : ☒ Greatest known range: Lower: 1.4% Upper: 7.6% (hydrocarbons, C9, aromatics)
- Flash point** : Closed cup: 28°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.
- Viscosity** : Kinematic (40°C): >20.5 mm²/s
- Solubility in water** : cold water Not soluble
hot water Not soluble
- Partition coefficient: n-octanol/ water** : Not available.
- Vapour pressure** : Highest known value: 0.4 kPa (2.7 mm Hg) (at 20°C) (2-methoxy-1-methylethyl acetate). Weighted average: 0.28 kPa (2.1 mm Hg) (at 20°C)

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

| | |
|---------------------------------|---|
| Evaporation rate | : 0.3 (2-methoxy-1-methylethyl acetate) compared with butyl acetate |
| Density | : 1.779 to 1.828 g/cm ³ |
| Vapour density | : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). |
| Explosive properties | : Not available. |
| Oxidising properties | : Not available. |
| Particle characteristics | |
| Median particle size | : Not applicable. |

9.2 Other information

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

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------|---------------------------------|---------|------------|----------|
| dicopper oxide | LC50 Inhalation Dusts and mists | Rat | 3.34 mg/l | 4 hours |
| 2-methoxy-1-methylethyl acetate | LD50 Oral | Rat | 1340 mg/kg | - |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 8532 mg/kg | - |

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Racing | 1404.9 | N/A | N/A | N/A | 9.4 |
| dicopper oxide | 500 | N/A | N/A | N/A | 3.34 |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |

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 | - |
| zinc oxide | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |

Sensitisation

Racing

SECTION 11: Toxicological information

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

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity**Developmental effects** : No known significant effects or critical hazards.**Fertility effects** : No known significant effects or critical hazards.**Teratogenicity**

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------|--------------------------|-------------------|--------------------------------------|
| hydrocarbons, C9, aromatics | Category 3 | - | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate | Category 3 Category 3 | - | Narcotic effects Narcotic effects |

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Product/ingredient name | Result |
|-----------------------------|--------------------------------|
| hydrocarbons, C9, aromatics | 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.

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------|--|--|---------------------------------------|
| Copper oxide | EC50 0.51 mg/l LC50 >0.173 mg/l Acute LC50 0.075 mg/l Fresh water Chronic NOEC 0.001 mg/l Chronic NOEC 0.0052 mg/l | Daphnia Fish - Cyprinodon variegatus Fish - Danio rerio Algae | 48 hours 96 hours 96 hours - |
| hydrocarbons, C9, aromatics | Acute EC50 <10 mg/l Acute IC50 <10 mg/l Acute LC50 <10 mg/l | Algae Daphnia Fish | - 48 hours 96 hours |
| zinc oxide | Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.02 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential | 96 hours 72 hours |

Racing

SECTION 12: Ecological information

growth phase

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 |
|-----------------------------|-------------------|------------|------------------|
| copper oxide | - | - | Not readily |
| hydrocarbons, C9, aromatics | - | - | Not readily |
| zinc oxide | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---------------------------------|--------------------|------------|-----------|
| hydrocarbons, C9, aromatics | - | 10 to 2500 | high |
| zinc oxide | - | 28960 | high |
| colophony | 1.9 to 7.7 | - | high |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

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.

Racing

SECTION 13: Disposal considerationsEuropean 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.

| 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.

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 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Additional information**ADR/RID**

: **Hazard identification number** 30
Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.
Tunnel code (D/E)

ADN

: **Viscous liquid exception** This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.

Racing

SECTION 14: Transport information

- IMDG** : **Emergency schedules** F-E, S-E
Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- UN** : **Viscous liquid exception** This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.2.

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.

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.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

*Racing***SECTION 15: Regulatory information**

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

D.Lgs. 152/06 : Not determined.

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

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 |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Acute 1, H400 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

Full text of abbreviated H statements

Racing**SECTION 16: Other information**

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| 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 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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