

Safety Data Sheet

According to Occupational Health and Safety
(Classification, Labelling and Safety Data Sheet of Hazardous Chemicals)
Malaysia Regulation 2013



Trade name: **Seamaster Antifouling Composition**

Product No: **6500**

Version: 3.0 / EN [15.47]

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Revision date: 16/10/2024

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier: Seamaster Antifouling Composition
Product Code: 6500

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

Relevant identified uses:

To be applied over good anti-corrosive system. The anti-corrosive coating should be dry and free of all contamination (oil, grease, salt, etc.) and over coated within the specified over coating time.

Uses advised against:

Not Applicable.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Seamaster Paint (Malaysia) Sdn Bhd.
No.32 & 34, Jalan Firma 2/1, Tebrau Industrial Estate 1,
81100 Johor Bahru, Johor, Malaysia.
Telephone No.: +60 7 355 2088
Fax No.: +60 7 355 2081

1.4 EMERGENCY TELEPHONE NUMBER

Telephone: +60 7 355 2088 (Office Hours)

SECTION 2: Hazards identification

2.1 Classification of the hazardous chemical:

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

Flammable liquid Category 3, H226

Skin corrosion/irritation Category 2, H315

Aspiration hazard Category 1, H304

Serious eye damage/ irritation Category 2, H319

STOT-SE Category 3, H335

STOT-RE Category 2, H373

Chronic Aquatic Toxicity Category 2, H411

2.2 Label elements: Hazard pictograms



Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

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H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

[Prevention]:

P210	Keep away from heat/sparks/open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hand thoroughly after handling.
P271	Use only outdoors or in well-ventilated area.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.

[Response]:

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use carbon dioxide, dry powder or foam for extinction.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

[Storage]:

P403+P235	Store in a well-ventilated place. Keep cool.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

[Disposal]:

P501	Dispose of contents/container to authorized chemical landfill.
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2.3 Other hazards

Other hazards which do not result in classification: Not Applicable.

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SECTION 3: Composition/information on ingredients

3.1 Mixtures:

Product/ ingredient name	CAS No.	INDEX No.	EC No.	Concentration	Classification according Regulation (EC) No. 1272 [CLP]
Copper (I) Oxide	1317-39-1	N/A	N/A	≥20– <30	Acute tox. 4; H302; Expert opinion Aquatic Acute 1; H400; On basis of test data M-factor 100 Aquatic Chronic 1; H410; On basis of test data M-factor 1
Aromatic Hydrocarbon	123-86-4	N/A	N/A	≥15– <30	Flam Liq. Cat 3, H226 STOT-SE. Cat 3, H335
Resin	8050-09-7	N/A	N/A	≥50 – <75	Flam Liq. Cat 3, H226 Skin corr/ irr. Cat 2, H315 STOT-RE. Cat 2, H373
Titanium Dioxide	13463-67-7	N/A	N/A	≥5 – <25	N/A
Additive	Not Available	N/A	N/A	≤5	Flam Liq. Cat 3, H226 Aspiration Haz. Cat 1, H304 Ser Eye dam/ Irr. Cat 2, H319 STOT-SE. Cat 3, H335 Chro Aqua Tox. Cat 2, H411

Additional information:

The balance of the ingredients in this product is proprietary, non-hazardous and/or required to be listed.

Full text of H- and EUH-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information's:

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.

Inhalation:

Remove to fresh air. Keep person warm and at rest and remove from contaminated area. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If fumes or combustion products are inhaled. Transport to hospital or doctor.

Skin contact:

Immediately remove all contaminated clothing, including footwear. Flush skin with running water (and soap if available). Do NOT use solvents or thinner to clean skin. Seek medical attention in event of irritation.

Eye contact:

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Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart for at least 10 minutes and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel and seek immediate medical advice.

Ingestion:

If swallowed do NOT induce vomiting seek medical advice immediately. If vomiting occurs, lean patient forward or place on left side (head down position, if possible) to maintain open airway and prevent aspiration.

Self-protection of the first aider:

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.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, dry powder or foam; do not use water except for cooling sealed container.

Unsuitable extinguishing media:

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

May explode when heated or exposed to flames or sparks. Combustion may produce hazardous decomposition products.

5.3 Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Eliminate sources of ignition. Ensure adequate ventilation. Prevent skin and eye contact by using protective equipment.

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For emergency responders:

If specialised clothing is required to deal with the spillage.

6.2 Environmental precautions

Prevent entry to drains, sewers or watercourse.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth or vermiculite. Place in suitable container, and dispose in accordance with local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

Additional information:

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Naked flames and other sources of ignition must not be present. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. Use in well-ventilated area. Avoid skin and eye contact. Avoid inhalation of vapours and spray mists arising from the application of this mixture.

Smoking, eating and drinking should be prohibited in all preparation and application areas. Put on appropriate personal protective equipment (see Section 8).

Never use pressures to empty a container are not a pressure vessel. Do not allow to enter drains or watercourses. Vapours are heavier than air and may spread along floors. There are no exposure scenarios, see details in section 1.

7.2 Conditions for safe storage, including any incompatibilities

Store only in area of good ventilation. No smoking or ignition sources in areas of storage. Keep away from heat and direct sunlight. Prevent unauthorised access.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Handle containers carefully to prevent damage and spillage.

7.3 Specific end uses

Recommendations: Not available.

Specific end uses: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 *Occupational exposure limits: 8 hours TWA = 100ppm.
(Ensure adequate ventilation at the workplace)

8.1.2 Biological limit values: No data available.

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8.1.3 Exposure limits at intended use: No data available.

8.1.4 DNEL/PNEC-values: No data available.

8.1.5 Risk management measures according to user control banding approach: No data available.

Note : * Properties of solvents

8.2 Exposure controls

8.2.1 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 any vapour below recommended occupational exposure limits (OEL) suitable respiratory protection must be worn.

8.2.2 Personal protective equipment:

Eye / Face protection:

Wear safety eyewear, e.g goggles or safety glasses with side protection. Eyewear should comply with an approved standard. Wear a full-face respirator, if needed.

Skin protection:

Wear suitable protective clothing. Remove contaminated clothing to avoid skin contact.

Hand protection:

Wear PVC, nitrile rubber, polyurethane gloves or appropriate hand protection. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Body protection:

Personnel should wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure.

Other skin protection measures:

Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. All parts of the body should be washed after contact.

Respiratory protection:

Normal working condition should have adequate ventilation and vapour extraction. If vapour should exceed the OEL use local exhaust ventilation to meet exposure limit requirement.

Thermal hazards:

No data available.

8.2.3 Environmental exposure controls:

Do not allow to enter drains or watercourses.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance

Physical state: Liquid

Colour: Various colour according to colour card

Odour: Characteristic

Odour threshold: Not applicable

	Value
pH	Not available
Melting point/freezing point	Not available
*Initial boiling point/boiling range	126.1°C
Flash point	32°C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	1.50-1.60 g/ml
Solubility(ies)	Immiscible
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	75 - 85 KU (at 27 ± 2°C)

9.2 Other information:

Note : * properties of the solvents

SECTION 10: Stability and reactivity

10.1 Reactivity

Naked flame and other sources of ignition.

10.2 Chemical stability

Unstable in the presence of incompatible materials. Product itself is considered stable.

10.3 Possibility of hazardous reactions

Containers, even those that have been emptied, may contain explosive vapours.

10.4 Conditions to avoid

Exposure to high temperature or flames.

10.5 Incompatible materials

Store away from incompatible materials in a cool, dry, well-ventilated area.

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10.6 Hazardous decomposition products

SECTION 11: Toxicological information

Burning will produce dense black smoke containing carbon dioxide, carbon monoxide and other toxic fumes.

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Over exposure can caused irritating to the respiratory system. Excessive concentrations may produce effects on the central nervous systems including drowsiness. In extreme case, loss of consciousness may result. Swallowing of the liquid may cause aspiration into lungs with the risk of chemical pneumonitis. Prolonged contact may irritate skin and cause dermatitis. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.

Acute toxicity:

No data available.

Skin corrosion or irritation:

No data available.

Serious eye damage or eye irritation:

No data available.

Respiratory sensitization:

No data available.

Skin sensitization:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicity:

No data available.

Specific target organ toxicity (STOT) – single exposure:

No data available.

Specific target organ toxicity (STOT) – repeated exposure:

No data available.

Aspiration hazard:

No data available.

SECTION 12: Ecological information

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12.1 Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. See section 3 for details.

12.2 Persistence and degradability

Solvent in the material vaporized. The solid material is not biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

Soil/water partition coefficient (KOC):

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Disposal methods

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 no recyclable products via a licensed waste disposal contractor.

Recycle containers if possible, or dispose of in an authorized landfill. Dispose as hazardous waste in compliance with local and national regulations. Waste codes/waste designations in accordance with Environmental Quality Act 1974, Malaysia.

Waste treatment options

Do not allow into drains or watercourses. Wastes and empty containers should be disposed of in accordance with State and Federal regulations. Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

Other disposal recommendations

Not available.

Additional information

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).

SECTION 14: Transport information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	1263	1263	1263	1263
14.2 UN Proper shipping name	Paint	Paint	Paint	Paint

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14.3 Transport hazard class(es)	3	3	3	3
Hazard label(s)				
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No	No	No	No

14.6 Special precautions for user

Not Available.

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

Not Available.

SECTION 15: Regulatory information

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

15.1.1 EU Regulation and Legislation

Control of Major Accident Hazards Involving Hazardous Substance, Directive 96/82/EC
Not applicable.

15.1.2 National regulations

Malaysia Regulation and Legislation:

- Occupational Safety and Health Act, 1994.
- Environmental Quality Act, 1974.

15.1.3 International regulations

- Montreal Protocol (Ozone Depleting Substances)
Not listed.
- Stockholm Convention on Persistent Organic Pollutants
Not listed.
- Rotterdam Convention on Prior Inform Consent (PIC)
Not listed.
- Basel Convention (Hazardous Waste)
Not listed.

15.2 Chemical Safety Assessment

No chemical Safety Assessment has been carried for this substance/ mixture by the supplier.

SECTION 16: Other information

16.1 Indication of changes

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

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Updates made in accordance with implementation of GHS requirements.

Date of previous issue : 1/12/2023
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16.2 Abbreviations and acronyms

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

<u>Acronym</u>	<u>Full text</u>
N/A	Not applicable
N/D	Not determined
N/E	Not established
CAS	Chemical Abstracts Service
OEL	Occupational Exposure Limit
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
UN	United Nations
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road. / Regulation concerning the International Carriage of Dangerous Goods by Rail
MARPOL 73/78	International Convention for the Prevention of Pollution From Ships, 1973 as modified by Protocol of 1978. ("Marpol = Marine Pollution)
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

16.3 Key literature references and sources for data

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Edition, 2009, United Nation.
- Industry Code of Practice (ICOP) on Chemicals Classification and Hazard Communication.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

16.6 Training advice

Not Applicable.

16.7 Further information

Disclaimer:

The information provided in this Safety Data Sheet (SDS) is based on knowledge, information and trust best of us, true on the date of publication. This information is intended only as a guide in relation to the operation, use, processing,

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storage, transportation, disposal and acquittal safely and should not be considered as a warranty or quality specification. This information is only available relates to the specified and unspecified specific material for such substances in use in combination with any other material or in another process, unless stated in the text.
