

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



1.1. Product identifier

SEAJET 039 PLATINUM MONO-COMPONENT

Product code: 665RR - Version 1 - Date:31-05-2017

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

PT21 - Antifouling paint.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

National Poisons Information Center: Accident and emergency unit Mater Dei hospital, Emergency telephone number Tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226	Flammable liquid and vapour.
Skin Irrit. 2 H315	Causes skin irritation.
Eye Dam. 1 H318	Causes serious eye damage.
STOT SE 3 H335	May cause respiratory irritation.
STOT RE 2 H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1 H400	Very toxic to aquatic life.
Aquatic Chronic 1 H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements



GHS02



GHS05



GHS07

Hazard pictogram(s):



GHS08



GHS09

Signal word: Danger

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

Hazard statement(s):

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information (EU): Not applicable.



Product code: 665RR - Version 1 - Date:31-05-2017

Precautionary statement(s)

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260: Do not breathe vapours/spray.

P273: Avoid release to the environment.

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

Response:

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

P310: Immediately call a POISON CENTER or doctor.

P370+P378: In case of fire: Use alcohol resistant foam to extinguish.

P391: Collect spillage.

Storage & Disposal: -

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

Cuprous(I)Oxide.

Xylene.

Copper pyrrithione.

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

Restricted to professional users.

Children shall be kept away until treated surfaces are dry.

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

2.3. Other hazards

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



Product code: 665RR - Version 1 - Date:31-05-2017

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Substance name	Identification number	% [weight]	Hazard statement Code(s) (*) / Hazard Class and Category Codes
Cuprous(I)Oxide.	EG-nr: 215-270-7	30-35 %	H302 - Acute Tox. 4 H410 - Aquatic Chronic 1
	CAS-nr: 1317-39-1		H332 - Acute Tox. 4
	Index: 029-002-00-X		H318 - Eye Dam. 1
	Reach#: 01-2119513794-36		H400 - Aquatic Acute 1
			SCL / M-factor / ATE: H302-ATE 1340mg/kg bw, H332-ATE 3,34mg/l(Dust/Mist) - M(ac)=100 M(chr)=100
Xylene.	EG-nr: 215-535-7	15-25 %	H226 - Flam. Liq. 3 H319 - Eye Irrit. 2
	CAS-nr: 1330-20-7		H304 - Asp. Tox. 1 H332 - Acute Tox. 4
	Index: 601-022-00-9		H312 - Acute Tox. 4 H335 - STOT SE 3
	Reach#: 01-2119488216-32		H315 - Skin Irrit. 2 H373 - STOT RE 2
			SCL / M-factor / ATE: H312-ATE 1100, H332-ATE 29mg/l(Vap)
Ethylbenzene.	EG-nr: 202-849-4	5-10 %	H225 - Flam. Liq. 2 -
	CAS-nr: 100-41-4		H304 - Asp. Tox. 1 -
	Index: 601-023-00-4		H332 - Acute Tox. 4 -
	Reach#: 01-2119489370-35		H373-(**) - STOT RE 2 -
			SCL / M-factor / ATE: H332-ATE 17,6mg/l(Vap)
Zinc Oxide.	EG-nr: 215-222-5	1-10 %	H400 - Aquatic Acute 1 -
	CAS-nr: 1314-13-2		H410 - Aquatic Chronic 1 -
	Index: 030-013-00-7		- -
	Reach#: 01-2119463881-32		- -
			-
Copper Pyrithione.	EG-nr: 238-984-0	1-5 %	H330 - Acute Tox. 2 H410 - Aquatic Chronic 1
	CAS-nr: 14915-37-8		H302 - Acute Tox. 4 -
	Index: -		H318 - Eye Dam. 1 -
	Reach#: -		H400 - Aquatic Acute 1 -
			SCL / M-factor / ATE: H302-ATE 1075mg/kg bw - M(ac)=100 M(chr)=100
Toluene.	EG-nr: 203-625-9	0,1-0,5 %	H225 - Flam. Liq. 2 H315 - Skin Irrit. 2
	CAS-nr: 108-88-3		H361d(*) - Repr. 2 H336 - STOT SE 3
	Index: 601-021-00-3		H304 - Asp. Tox. 1 H412 - Aquatic Chronic 3
	Reach#: 01-2119471310-51		H373(*) - STOT RE 2 -
			-
Methanol.	EG-nr: 200-659-6	0,1-0,5 %	H225 - Flam. Liq. 2 H370** - STOT SE 1
	CAS-nr: 67-56-1		H331 - Acute Tox. 3 -
	Index: 603-001-00-X		H311 - Acute Tox. 3 -
	Reach#: 01-2119433307-44		H301 - Acute Tox. 3 -
			SCL / M-factor / ATE: STOT SE 1; H370: C ≥ 10 %, STOT SE 2; H371: 3 % ≤ C < 10 %, H301-ATE 100, H311-ATE 300, H331-ATE 3 (Vap)



Product code: 665RR - Version 1 - Date:31-05-2017

SECTION 4: First aid measures**4.1. Description of first aid measures**

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

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 CENTER or doctor.

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 CENTER or 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.

IF SWALLOWED:

Rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call a POISON CENTER or doctor.

4.2. Most important symptoms and effects, both acute and delayed**Potential acute symptoms and effects****following inhalation:**

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

May cause respiratory irritation.

following skin contact:

Causes skin irritation.

following eye contact:

Causes serious eye damage.

following ingestion:

No known significant effects or critical hazards.

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

No specific data.

following skin contact:

Adverse symptoms may include the following: irritation, redness

following eye contact:

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

following ingestion:

No specific data.

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

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

Specific treatments

No specific treatment.



Product code: 665RR - Version 1 - Date:31-05-2017

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

Recommended: alcohol resistant foam, CO2, powders.

Extinguishing media which must not be used for safety reasons:

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

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

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

5.3. Advice for firefighters

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

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

For non-emergency personnel: Comply with company's emergency procedures. Exclude sources of ignition and ventilate the area. Use safety goggles or safety glasses, as well as any other appropriate personal protective equipment, at all times. Avoid breathing vapours. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Refer to protective measures listed in Sections 7 and 8.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. No sparking tools should be used. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses. Isolate from sources of heat, sparks and open flame.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Information regarding fire and explosion hazard

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

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.



Product code: 665RR - Version 1 - Date:31-05-2017

Notes on joint storage: Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Additional information on storage conditions

Observe label precautions. Store between 0°C and 40°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Limits for occupational exposure and / or biological limit values		
	LIMIT VALUES TWA8h - STEL15 ppm-mg/m ³	LIMIT VALUES TWA8h - STEL15 ppm-mg/m ³
Cuprous(I)Oxide.	TWA8h - ppm / - mg/m ³	TWA8h - ppm / - mg/m ³
	STEL - ppm / - mg/m ³	STEL15 - ppm / - mg/m ³
	Notations -	Notation -
Xylene.	TWA8h 50 ppm / 221 mg/m ³	TWA8h 50 ppm / 221 mg/m ³
	STEL 100 ppm / 442 mg/m ³	STEL15 100 ppm / 442 mg/m ³
	Notations Skin	Notation Skin
Ethylbenzene.	TWA8h 100 ppm / 442 mg/m ³	TWA8h 100 ppm / 442 mg/m ³
	STEL 200 ppm / 884 mg/m ³	STEL15 200 ppm / 884 mg/m ³
	Notations Skin	Notation Skin
Zinc Oxide.	TWA8h - ppm / - mg/m ³	TWA8h - ppm / - mg/m ³
	STEL - ppm / - mg/m ³	STEL15 - ppm / - mg/m ³
	Notations -	Notation -
Copper Pyrithione.	TWA8h - ppm / - mg/m ³	TWA8h - ppm / - mg/m ³
	STEL - ppm / - mg/m ³	STEL15 - ppm / - mg/m ³
	Notations -	Notation -
Toluene.	TWA8h 50 ppm / 192 mg/m ³	TWA8h 50 ppm / 192 mg/m ³
	STEL 100 ppm / 384 mg/m ³	STEL15 100 ppm / 384 mg/m ³
	Notations Skin	Notation Skin
Methanol.	TWA8h 200 ppm / 260 mg/m ³	TWA8h 200 ppm / 260 mg/m ³
	STEL - ppm / - mg/m ³	STEL15 - ppm / - mg/m ³
	Notations Skin	Notation Skin

Malta - TWA=Time Weighted Average (8hr) - STEL=Short-term exposure limit (15-minute reference period) - Protection of the Health and Safety of Workers from the Risks related to Chemical Agents at Work Regulations.

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

Notation(s):

(1): Short-term exposure limit value in relation to a reference period of 1 minute.

Inh.: Inhalable fraction.

Resp.: Respirable fraction.

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

DNEL - Not available.

PNEC - Not available.

8.2. Exposure controls

Appropriate engineering controls

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



Product code: 665RR - Version 1 - Date:31-05-2017

Individual protection measures, such as personal protective equipment

Personal Protection

Respiratory protection



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

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

Hand protection



There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. At repeated or prolonged contact; use gloves tested according to EN 374.

Viton-gloves offer good protection for intense contact with most solvents, e.g. complete immersion in solvent. Nitrile gloves offer good protection during spray application. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. The breakthrough time must be greater than the end use time of the product. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Gloves for repeated or prolonged exposure (Permeation breakthrough times > 480 min) - High Protection:		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Gloves for repeated or prolonged exposure (Permeation breakthrough times 240 - 480 min) - High Protection:		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Gloves for repeated or prolonged exposure (Permeation breakthrough times 120-240 min) - Medium Protection:		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Gloves for repeated or prolonged exposure (Permeation breakthrough times 60 - 120 min) - Medium Protection:		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Gloves for short term exposure / splash protection (Permeation breakthrough times 30 - 60 min):		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Nitrile Gloves	0,31mm	High



Product code: 665RR - Version 1 - Date:31-05-2017

Gloves for short term exposure / splash protection (Permeation breakthrough times 10 - 30 min):		
Material:	Minimum Thickness:	Chemical resistance:
Polyethylene (PE) Gloves	0,062mm	High
Butyl Viton Gloves	0,70mm	High
Butyl Gloves	0,50mm	High
Nitrile Gloves	0,31mm	High

Non suitable Gloves - non exhaustive list (Permeation breakthrough times < 10 min):		
Material:	Thickness (or less):	
Natural Rubber Gloves	0,75mm	
Nitrile Gloves	0,175mm	
Neoprene Gloves	0,75mm	
Butyl Gloves	0,3mm	
PVA Gloves	0,2-0,3mm	

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. USE PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.



Eye/face protection

Use safety eyewear tested according to EN 166 designed to protect against splash of liquids.



Skin protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.



Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state

Liquid

(b) Colour

Diverse.

(c) Odour

Typical aromatic odour.

(d) Melting point/freezing point

Not applicable due to nature of the product.

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

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

(f) Flammability

Vapours are ignitable. See Flash point (h).

(g) Lower and upper explosion limit

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

Cuprous(I)Oxide.	Not applicable.
Xylene.	1.0-7.0%
Ethylbenzene.	1.2-8.0%
Zinc Oxide.	Not applicable.
Copper Pyrithione.	Not applicable.
Toluene.	1.2-7%
Methanol.	5.5-44%



Product code: 665RR - Version 1 - Date:31-05-2017

(h) Flash point

24°C - Method: ISO13736:2021

(i) Auto-ignition temperature

Not applicable due to nature of the product.

Lowest auto ignition temperature: Copper pyrithione. - 225°C

(j) Decomposition temperature

Not applicable due to nature of the product.

(k) pH

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

(l) Kinematic viscosity

233 mm²/s @40°C - Method: ISO3219

Non-Newtonian liquid - thixotropic behaviour.

(m) Solubility

Not Soluble (in water).

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

Not applicable due to nature of the product.

(o) Vapour pressure

Cuprous(I)Oxide.	Not applicable.
Xylene.	8.0 mbar
Ethylbenzene.	9.3 mbar
Zinc Oxide.	Not applicable.
Copper Pyrithione.	0,00037kPa
Toluene.	29mbar
Methanol.	128 mbar

(p) Density and/or relative density

Relative density 1,64-1,74 @ 20°C - Method: ASTM D1475-98

(q) Relative vapour density

1-2 @ 20°C - Method: Calculated.

(r) Particle characteristics

Not applicable due to nature of the product.

9.2. Other information

Information with regard to physical hazard classes

No relevant information.

Other safety characteristics

No relevant information.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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



Product code: 665RR - Version 1 - Date:31-05-2017

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

There are no data available on the mixture itself.

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

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

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Substance name

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

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

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

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

Copper Pyrrithione. - LD50 Oral - 1075 mg/kg, Rat - LD50 Dermal - >2000 mg/kg, Rabbit - LC50 Inhalation - 0,07mg/l (Dust)Rat,4h

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

Methanol. - LD50 Oral - 5628 mg/kg, Rat - LD50 Dermal - 15800 mg/kg, Rabbit - LC50 Inhalation - 2,8 mg/kgRat,4h

Acute toxicity:

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

Conclusion/Summary on mixture

Skin corrosion/irritation:

Conclusion/Summary on mixture: Causes skin irritation.

Method: Additivity approach, No testdata available.

Serious eye damage/irritation:

Conclusion/Summary on mixture: Causes serious eye damage.

Method: Additivity approach, no testdata available.

Respiratory or skin sensitisation:

Conclusion/Summary on mixture

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



Product code: 665RR - Version 1 - Date:31-05-2017

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT - single exposure:

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

STOT - repeated exposure:

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

Aspiration hazard:

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met.
Justification: Additivity approach / Kinematic viscosity: 233 mm²/s @40°C - Measured

Information on likely routes of exposure

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

Ingestion: No specific data.

Skin exposure: Causes skin irritation.

Eye exposure: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Adverse symptoms may include the following: Cough

Ingestion: No specific data.

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

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

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

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

Long term exposure:

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

Potential chronic health effects:

Conclusion/Summary on mixture

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: No relevant information.



Product code: 665RR - Version 1 - Date:31-05-2017

11.2 Information on other hazards

Endocrine disrupting properties
 No relevant information.

Other information

No relevant information.

SECTION 12: Ecological information

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

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

12.1. Toxicity

Substance name - Species - Exposure - Results

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

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

Ethylbenzene. Acute (short-term) toxicity: Fish: LC50/96h 4.2 mg/l (Oncorhynchus mykiss) / LC50/96 5.1 mg/L (Menidia menidia), Crustacea: EC50/48h 1.8 mg/l (Daphnia magna) / EC50/48h 2.6 mg/L (mysid shrimp), Algae/aquatic plants: EC50/96h 3.6 mg/L (Pseudokirchneriella subcapitata) / EC50/96h 7.7 mg/L (Skeletonema costatum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: NOEC 3,4 / NOEC 4,5 mg/L. Other organisms: Not available.

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

Copper Pyrithione. Acute (short-term) toxicity: Fish: LC50/96h 0,0032mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h 0,022mg/l (Daphnia magna), Algae/aquatic plants: EC50/120h 0,0012mg/l (Skeletonema costatum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

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

Methanol. Acute (short-term) toxicity: Fish: LC50/96h 15400 mg/l (Lepomis macrochirus), Crustacea: EC50/48h >10000mg/L (Daphnia magna), Algae/aquatic plants: EC50/96h 22000 mg/L (Selenastrum capricornutum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 450 mg/L, Crustacea: NOEC 208 mg/L, Algae/aquatic plants: Not available., Other organisms: Not available.

12.2. Persistence and degradability

Substance name

Cuprous(I)Oxide. - Readily biodegradable.

Xylene. - Readily biodegradable.

Ethylbenzene. - Readily biodegradable.

Zinc Oxide. - Readily biodegradable.

Copper Pyrithione. - Inherently biodegradable.



Product code: 665RR - Version 1 - Date:31-05-2017

12.2. Persistence and degradability

Substance name

Toluene. - Readily biodegradable.

Methanol. - Readily biodegradable.

12.3. Bioaccumulative potential

Substance name

Cuprous(I)Oxide.

log Kow

BCF

Not available.

Not available.

Xylene.

3,1

25,9

Ethylbenzene.

3,6

110 L/kg ww

Zinc Oxide.

Not available.

Not available.

Copper Pyrithione.

Not available.

50

Toluene.

2,65

90

Methanol.

-0,74

<10

12.4. Mobility in soil

Soil/water partition coefficient (KOC)

: Not available.

Mobility

: No relevant information.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No relevant information.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal: Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2014/955/EC) classification of this product. Waste codes / waste designations according to LoW: 07 04 99 Wastes not otherwise specified. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.

Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

SECTION 14: Transport information

	ADR / RID / ADN	IMDG-Code	IATA
14.1. UN number or ID number	UN 1263	UN 1263	UN 1263



Product code: 665RR - Version 1 - Date:31-05-2017

	ADR / RID / ADN	IMDG-Code	IATA
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label(s)			
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes Environmental hazardous substances (aquatic environment) 	Yes Marine Pollutant: Yes Marine Pollutant substance(s): Cuprous(I)Oxide., Zinc Oxide.	No
Additional information	Hazard Identification Number No.: 30	Emergency Schedule Number (EmS): F-E, S-E	

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

This antifouling paint is registered for use in Malta under MT-2017-01-23-B01b
 The information in this Safety Data Sheet is required pursuant to
 Annex II to regulation (EC) No 1907/2006 and its amendments.

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

* Active substance: Cuprous(I)Oxide. / CAS 1317-39-1 316g/kg.
 Copper Pyrithione. / CAS 14915-37-8 30g/kg.

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

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



Product code: 665RR - Version 1 - Date:31-05-2017

15.2. Chemical safety assessment

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

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

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

Abbreviations and acronyms:

ADN	: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
BCF	: Bioconcentration factor
CLP	: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	: Derived No Effect Level
IATA	: International Air Transport Association
IMDG-Code	: International Maritime Dangerous Goods
Kow	: octanol-water partition coefficient
LC50	: Lethal Concentration to 50 % of a test population
LD50	: Lethal Dose to 50% of a test population (Median Lethal Dose)
PBT	: Persistent, Bioaccumulative and Toxic substance
PNEC	: Predicted No Effect Concentration(s)
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT	: Specific Target Organ Toxicity
vPvB	: Very Persistent and Very Bioaccumulative



Product code: 665RR - Version 1 - Date:31-05-2017

Full text of Hazard Statements appearing in Section 3.2.:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d(*) Suspected of damaging the unborn child via inhalation.
- H370** Causes damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H373(*) May cause damage to central nervous system through prolonged or repeated exposure via inhalation.
- H373-(**) May cause damage to organs through prolonged or repeated exposure (hearing organs).
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

This product does not contain organotin compounds acting as biocides and complies with the "International convention on the control of harmful Anti-fouling systems on ships as adopted by IMO in october 2001 (IMO document AFS/CONF/26)".

The information of this SDS is based on the present state of our knowledge and on current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.