Safety Data Sheet
according to WHS Regulations

Vers.-Nr: 52 Revision: 23.05.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

*
1 Identification

· Product identifier

· Trade name: **Transocean Optima 232 AU**

· Article number: 232AU
· Registration number APVMA approval Number: 84506
· Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
· Application of the substance/preparation:
Antifouling paint
Paint

· Details of the supplier of the safety data sheet
· **Manufacturer/supplier**:
Transocean Coatings
Wagon Paints Australia Pty Ltd
ABN: 76 412 791 772
Street address: 5 Stephenson Road, Bayswater North
VIC, 3153 Australia
Phone: +613 9729-1344
Fax: +613 9720 2719
· **Emergency telephone number**:
Medical Emergencies: 24 Hours · Poisons Information Centre (Australia): 131 126.

*
2 Hazard(s) Identification

· Classification of the substance or mixture
Flam. Liq. 3 H226 Flammable liquid and vapour.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Muta. 1B H340 May cause genetic defects.
Carc. 1B H350 May cause cancer.
STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure.

· Label elements
· GHS label elements
The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
dicopper oxide
Naphtha (petroleum), hydrodesulfurized heavy
Rosin

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· Hazard statements
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H373 May cause damage to the central nervous system through prolonged or repeated exposure.
· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

*
3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

1317-39-1	dicopper oxide Acute Tox. 4, H302	25-50%
8050-09-7	Rosin Skin Sens. 1, H317	10-25%
64742-95-6	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H335-H336	≥10-<20%
	Naphtha (petroleum), hydrodesulfurized heavy Muta. 1B, H340; Carc. 1B, H350; STOT RE 1, H372; Asp. Tox. 1, H304	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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4 First Aid Measures

· Description of first aid measures
· General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact: Generally the product does not irritate the skin.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: Call for a doctor immediately.

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· Information for doctor:
· Most important symptoms and effects, both acute and delayed
No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
No further relevant information available.

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5 Fire Fighting Measures

· Extinguishing media
· Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
· Protective equipment: No special measures required.

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6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
· Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and Storage

· Handling:
· Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles: No special requirements.
· Information about storage in one common storage facility: Not required.
· Further information about storage conditions: Keep container tightly sealed.
· Specific end use(s) No further relevant information available.

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8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters
· Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs		
1314-13-2 zinc oxide		
Oral	long term DNEL	0.83 mg/kg/d (General Population)
Dermal	long term DNEL	83 mg/kg/d (General Population)
Inhalative	long term DNEL	2.5 mg/m3 (General Population)
		5 mg/m3 (Workers)
8050-09-7 Rosin		
Oral	long term DNEL	15 mg/kg/d (General Population)
Dermal	long term DNEL	15 mg/kg/d (General Population)
		25 mg/kg/d (Workers)
Inhalative	long term DNEL	52 mg/m3 (General Population)
		176 mg/m3 (Workers)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	long term DNEL	11 mg/kg/d (General Population)
Dermal	long term DNEL	11 mg/kg/d (General Population)
		25 mg/kg/d (Workers)
Inhalative	long term DNEL	32 mg/m3 (General Population)
		150 mg/m3 (Workers)
Naphtha (petroleum), hydrodesulfurized heavy		
Oral	long term DNEL	26 mg/kg/d (General Population)
Dermal	long term DNEL	26 mg/kg/d (General Population)
		44 mg/kg/d (Workers)
Inhalative	long term DNEL	71 mg/m3 (General Population)
		330 mg/m3 (Workers)

· PNECs	
1317-39-1 dicopper oxide	
PNEC STP	0.23 mg/l (water treatment plant)
PNEC aqua	7.8 ug/l (freshwater)
	5.2 ug/l (marine water)
PNEC sediment	87 mg/kg (freshwater)
	676 mg/kg (marine water)
PNEC soil	65 mg/kg (soi)
1314-13-2 zinc oxide	
PNEC STP	0.52 mg/l (water treatment plant)
PNEC aqua	20.6 ug/l (freshwater)
	6.1 ug/l (marine water)
PNEC sediment	117.8 mg/kg (freshwater)

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8050-09-7 Rosin	
PNEC STP	1,000 mg/l (water treatment plant)
PNEC aqua	5.4 ug/l (freshwater)
	0.54 ug/l (marine water)
PNEC sediment	0.02 mg/kg (freshwater)
	0.002 mg/kg (marine water)
PNEC soil	0.0015 mg/kg (Soil)

· Additional information: The lists valid during the making were used as basis.

· Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
· Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:

Tightly sealed goggles

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9 Physical and Chemical Properties

· Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.

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· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	162 °C
· Flash point:	25 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	450 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.7 Vol %
Upper:	7.5 Vol %
· Vapour pressure at 20 °C:	5 hPa
· Density at 20 °C:	1.7315 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	1,800 mPas
Kinematic:	Not determined.
· Solvent content:	
VOC (EC)	226.8 g/l
· Other information	No further relevant information available.

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10 Stability and Reactivity

· Reactivity No further relevant information available.
· Chemical stability
· Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
· Possibility of hazardous reactions No dangerous reactions known.
· Conditions to avoid No further relevant information available.
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological Information

· Information on toxicological effects
· Acute toxicity

· LD/LC50 values relevant for classification:		
1317-39-1 dicopper oxide		
Oral	LD50	470 mg/kg (rat)
	LC50/ 96 hr	0.075 mg/l (fish)
Inhalative	LC50/4 h	5 mg/l (rat)
1314-13-2 zinc oxide		
Oral	LD50	7,950 mg/kg (rat)
Inhalative	LC50/4 h	5.7 mg/l (rat)
8050-09-7 Rosin		
Oral	LD50	7,600 mg/kg (rat)
Dermal	LD50	2,500 mg/kg (rat)
Inhalative	LC50/4 h	1.5-2 mg/l (rat)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	LD50	3,492 mg/kg (rat)
	LC50/ 96 hr	9.2 mg/l (Rainbow trout (Oncorhynchus mykiss))
Dermal	LD50	>3,160 mg/kg (rab)
Inhalative	LC50/4 h	>6,193 mg/l (rat)
Naphtha (petroleum), hydrodesulfurized heavy		
Oral	LD50	>5,000 mg/kg (rat)
	LC50/ 96 hr	>1,000 mg/l (Rainbow trout (Oncorhynchus mykiss))
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	>4.95 mg/l (rat)

· Primary irritant effect:
· Skin corrosion/irritation No irritant effect.
· Serious eye damage/irritation No irritating effect.
· Respiratory or skin sensitisation Sensitisation possible through inhalation.
· Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful

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12 Ecological Information

· Toxicity

· Aquatic toxicity:	
1317-39-1 dicopper oxide	
EC 50 (48 hr)	0.042 mg/l (daphnia)
1314-13-2 zinc oxide	
EC 50 (48 hr)	0.67 mg/l (daphnia)
EC 50 (72 hr)	0.21 mg/l (Algae)

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64742-95-6 Hydrocarbons, C9, aromatics	
EC 50 (48 hr)	3.2 mg/l (daphnia)
EC 50 (72 hr)	2.9 mg/l (Algae)
Naphtha (petroleum), hydrodesulfurized heavy	
EC 50 (48 hr)	43.98 mg/l (Algae)
	>1,000 mg/l (daphnia)
EC 50 (72 hr)	>1,000 mg/l (Algae)

· Persistence and degradability No further relevant information available.
· Behaviour in environmental systems:
· Bioaccumulative potential No further relevant information available.
· Mobility in soil No further relevant information available.
· Ecotoxical effects:
· Remark: Very toxic for fish
· Additional ecological information:
· General notes:
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
· Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.

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14 Transport information

· UN-Number	
· ADG, IMDG, IATA	UN1263
· UN proper shipping name	
· ADG	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· IMDG	PAINT (dicopper oxide, zinc oxide), MARINE POLLUTANT
· IATA	PAINT

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· Transport hazard class(es)

· ADG, IMDG

· Class	3 Flammable liquids.
· Label	3

· IATA

· Class	3 Flammable liquids.
· Label	3
· Packing group	
· ADG, IMDG, IATA	III
· Environmental hazards:	Product contains environmentally hazardous substances:
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADG):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

· Transport/Additional information:

· ADG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

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

· Australian Inventory of Chemical Substances		
1317-39-1	dicopper oxide	
1314-13-2	zinc oxide	
8050-09-7	Rosin	
1309-37-1	Red iron oxide	
14807-96-6	Talc (Mg3H2(SiO3)4)	
63449-39-8	Paraffin waxes and Hydrocarbon waxes, chloro	
	Derivative of an organically modified hectorite	
	Synthetic amorphous, pyrogenic silica	
14808-60-7	Quartz (SiO2)	
· Standard for the Uniform Scheduling of Medicines and Poisons		
1317-39-1	dicopper oxide	S5, S6

· GHS label elements
The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:
dicopper oxide
Naphtha (petroleum), hydrodesulfurized heavy
Rosin
· Hazard statements
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H373 May cause damage to the central nervous system through prolonged or repeated exposure.
· Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

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· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· Seveso category
E1 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
· * Data compared to the previous version altered.