

# Aquarius Marine Coatings Ltd SAFETY DATA SHEET Coppercoat Hardener

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

1.1. Product identifier

Product name Coppercoat Hardener

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

Identified uses Amine hardener for epoxy base - Coppercoat Antifouling

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

Supplier Aquarius Marine Coatings Ltd

Unit 10 St Patrick's Industrial Estate

Station Road Shillingstone Dorset DT11 0SA

Tel: 01258 861059

Email: info@coppercoat.com

## 1.4. Emergency telephone number

**Emergency telephone** +44(0)1258 861059 (Monday-Friday 09.00-17.00)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or -

1999/45/EC)

Human health See Section 16 for the full text of the R phrases declared on this section

Environmental See Section 16 for the full text of the R phrases declared on this section

2.2. Label elements

**Pictogram** 



Signal word Danger

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# **Coppercoat Hardener**

Hazard statements H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

10-30%

contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains Linseed oil, polymer w/ bis-A, bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl

Ph ether, pentaethylenehexamine

#### 2.3. Other hazards

Not available.

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

#### 3.2. Mixtures

Linseed oil, polymer w/ bis-A, bis-A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether, pentaethylenehevamine

pentaethylenehexamine

CAS number: 68915-81-1

Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R38,R41.

Eye Dam. 1 - H318

PROPAN-2-OL 5-10%

CAS number: 67-63-0 EC number: 200-661-7

Classification (67/548/EEC or 1999/45/EC)

Flam. Liq. 2 - H225 F;R11 Xi;R36 R67

Eye Irrit. 2 - H319 STOT SE 3 - H336

1-METHOXY-2-PROPANOL 5-10%

CAS number: 107-98-2 EC number: 203-539-1

Classification Classification (67/548/EEC or 1999/45/EC)

Flam. Liq. 3 - H226 R10 R67

STOT SE 3 - H336

DIETHYLENETRIAMINE		<1%
CAS number: 111-40-0	EC number: 203-865-4	
	ard Statements are Displayed in Section 16.	

SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so

Ingestion Wash out mouth with water. Transfer to hospital as soon as possible

**Skin contact** Drench the affected skin with running water for 10 minutes or longer if substance is still on

skin

**Eye contact** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist

examination

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

**Inhalation** There may be irritation of the throat with a feeling of tightness in the chest

**Ingestion** There may be soreness and redness of the mouth and throat. Corrosive burns may appear

around the lips

**Skin contact** An itchy rash may occur at the site of contact

**Eye contact** There may be irritation and pain

## 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor**No specific recommendations. If in doubt, get medical attention promptly.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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

Hazardous combustion

products

Protection against nuisance dust must be used when the airborne concentration exceeds 10

mg/m3. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during

firefighting

NOTE! Use air-supplied respirators to protect against gases\fumes. Use special protective

clothing. Regular protection may not be safe.

Keep run-off water out of sewers and water sources. Dike for water control.

Special protective equipment

for firefighters

Face mask, protective gloves and safety helmet. Self contained breathing apparatus and full

protective clothing must be worn in case of fire.

#### SECTION 6: Accidental release measures

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

**Personal precautions** For personal protection, see section 8. Eliminate all sources of ignition.

#### 6.2. Environmental precautions

**Environmental precautions** 

Do not discharge into drains, water courses or onto the ground. Contain the spillage using

bunding

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal

by an appropriate method

#### 6.4. Reference to other sections

Reference to other sections

The product contains a substance which is hazardous to aquatic organisms and which may

cause long term adverse effects in the aquatic

environment. See section 12 as well. For waste disposal, see section 13.

#### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions Avoid spilling, skin and eye contact. Avoid contact with skin and eyes. Contaminated clothing

and shoes must be discarded. Ensure there

is sufficient ventilation of the area

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

Storage precautions Store in cool, well ventilated area. Keep container tightly closed.

**Storage class** Chemical storage. Corrosive storage.

7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

# SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

## Occupational exposure limits

### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

## 1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 375 mg/m3(Sk) Short-term exposure limit (15-minute): WEL 150 ppm(Sk) 560 mg/m3(Sk)

## **DIETHYLENETRIAMINE**

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 4.3 mg/m3(Sk)

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits No exposure limit value known for the mixture

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

Hand protection Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen

in consultation with the gloves supplier, who

can inform about the breakthrough time of the glove material.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before

eating, smoking and using the toilet. Promptly remove any clothing that becomes

contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat,

drink or smoke.

**Respiratory protection**No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

## **SECTION 9: Physical and Chemical Properties**

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

Partition coefficient No data available

#### 9.2. Other information

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

Not available.

reactions

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks

### 10.5. Incompatible materials

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Materials to avoid Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.

Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing

agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition

products

Nitric acid (HNO3). Ammonia. Nitrogen oxides (NOx) Nitrogen oxide can react with water vapors to form corrosive nitric acid Carbon monoxide (CO). Carbon dioxide (CO2). Aldehydes.

Flammable hydrocarbon fragments

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) No data is available on the product itself

Serious eye damage/irritation

Serious eye damage/irritation Not available.

Skin sensitisation

**Skin sensitisation** Dermal sensitization to this product or components has been seen in some humans.

Components of this product have been found to cause mild skin sensitization in guinea pigs.

Germ cell mutagenicity

**Genotoxicity - in vitro**The product or a component may be mutagenic, the data is inconclusive.

Carcinogenicity

Carcinogenicity Not available

Reproductive toxicity

Reproductive toxicity - fertility No data is available on the product itself

Specific target organ toxicity - single exposure

**STOT - single exposure** Eye disease. Skin disorders and allergies. Neurological disorders.

Target organs Skin Eyes Central nervous system

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adversed Effect Level (NOAL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice. This product contains listed carcinogen(s) according to Directive 67/548/EEC, IARC, ACGIH and/or NTP in concentrations of 0.1 percent of greater.

May cause allergic skin reaction.

Aspiration hazard

Aspiration hazard no data available

**Inhalation** Can cause severe eye, skin and respiratory tract burns. May cause central nervous system

effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases

of overexposure can result in respiratory failure.

**Ingestion** If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the

oesophagus and the stomach. Harmful if swallowed.

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Skin contact Causes skin burns. If absorbed through the skin, may cause central nervous system effects,

such as headache, nausea, dizziness, confusion, breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Harmful in

contact with skin.

Eye contact Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed

individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the

tissue of the eye from the atmosphere. Causes eye burns. May cause blindness.

#### **SECTION 12: Ecological Information**

## 12.1. Toxicity

**Toxicity** No data is available on the product itself

### 12.2. Persistence and degradability

Persistence and degradability No data available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data is available on the product itself.

Partition coefficient No data available

12.4. Mobility in soil

Mobility Not available

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

Not available

#### 12.6. Other adverse effects

Other adverse effects Not available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

General information The product should not be allowed to enter drains, water courses or the soil; dispose of this

material and its container in a safe way. Contact supplier if guidance is required.

Disposal methods Dispose of container and unused contents in accordance with federal, state, and local

requirements.

## **SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

## 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

**Guidance** Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

Approved Classification and Labelling Guide (Sixth edition) L131.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

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Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.