



**SAFETY DATA SHEET**  
**METACLOR UNDERWATER PRIMER - GREY**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name METACLOR UNDERWATER PRIMER - GREY  
Product No. 520/P149/224

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

Identified uses As an underwater primer on prepared steel, or as a sealer coat over most conventional antifouling systems.

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

Supplier TEAL & MACKRILL LIMITED  
LOCKWOOD STREET  
HULL  
HU2 0HN  
+44(0)1482 320194(T)  
+44(0)1482 219266(F)  
info@teamac.co.uk  
Contact Person Technical Department - 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri as above

**1.4. Emergency telephone number**

+44 (0) 1482 320194 (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

Classification (1999/45/EEC) Xn;R20/21. Xi;R37. N;R50/53. R10.

**2.2. Label elements**

Contains XYLENE, MIXED ISOMERS  
Labelling



Harmful



Dangerous for the environment

Risk Phrases

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R37	Irritating to respiratory system.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S36/37	Wear suitable protective clothing and gloves.

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S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

Calcium Carbonate			10-30%
CAS-No.: 1317-65-3	EC No.: 215-279-6		
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.		
XYLENE, MIXED ISOMERS			10-30%
CAS-No.: 1330-20-7	EC No.: 215-535-7	Registration Number: 01-2119488216-32-xxxx	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) Xn;R20/21,R65. Xi;R36/37/38. R10.		
TRIZINC BIS(ORTHOPHOSPHATE)			10-30%
CAS-No.: 7779-90-0	EC No.: 231-944-3	Registration Number: 01-2119485044-40-0000	
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53		
Hydrocarbons, C9, aromatics			5-10%
CAS-No.:	EC No.: 918-668-5	Registration Number: 01-2119455851-35-xxxx	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.		

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ETHYLBENZENE		5-10%
CAS-No.: 100-41-4	EC No.: 202-849-4	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 4 - H332	Classification (67/548/EEC) F;R11 Xn;R20	
WHITE SPIRIT		1-5%
CAS-No.:	EC No.: 919-446-0	Registration Number: 01-2119458049-33-XXXX
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. N;R51/53. R10,R66,R67.	
Chlorinated polymer 20		1-5%
CAS-No.: 9006-03-5	EC No.:	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
Diatomaceous Earth		1-5%
CAS-No.: 61790-53-2	EC No.: 310-127-6	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
Stoddard solvent		1-5%
CAS-No.: 8052-41-3	EC No.: 232-489-3	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 Repr. 2 - H361d STOT SE 3 - H336 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Repr. Cat. 3;R63. N;R51/53. R10,R66,R67.	
Zinc Oxide		<1%
CAS-No.: 1314-13-2	EC No.: 215-222-5	Registration Number: 01-2119463881-32
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53.	

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ETHANOL <span style="float: right;">&lt;1%</span>	
CAS-No.: 64-17-5	EC No.: 200-578-6
Registration Number: 01-2119457610-43-xxxx	
Classification (EC 1272/2008) Flam. Liq. 2 - H225	Classification (67/548/EEC) F;R11
2-BUTANONE OXIME <span style="float: right;">&lt;0.1%</span>	
CAS-No.: 96-29-7	EC No.: 202-496-6
Registration Number: 01-2119539477-28	
Classification (EC 1272/2008) Acute Tox. 4 - H312 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R21 R43 Xi;R41
TOLUENE <span style="float: right;">&lt;0.1%</span>	
CAS-No.: 108-88-3	EC No.: 203-625-9
Registration Number: 01-2119471310-51-0026	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67
PHTHALIC ANHYDRIDE <span style="float: right;">&lt;0.1%</span>	
CAS-No.: 85-44-9	EC No.: 201-607-5
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335	Classification (67/548/EEC) Xn;R22 R42/43 Xi;R37/38,R41
2-METHYLPENTANE-2,4-DIOL <span style="float: right;">&lt;0.1%</span>	
CAS-No.: 107-41-5	EC No.: 203-489-0
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36/38
ZIRCONIUM SALT, 2-ETHYLHEXANOIC ACID <span style="float: right;">&lt;0.1%</span>	
CAS-No.: 22464-99-9	EC No.: 245-018-1
Registration Number: 01-2119979088-21-0002	
Classification (EC 1272/2008) Repr. 2 - H361d	Classification (67/548/EEC) Repr. Cat. 3;R63.

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Low Aromatic White Spirit			<0.1%
CAS-No.:	EC No.: 919-857-5	Registration Number: 01-2119463258-33-XXXX	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336 Asp. Tox. 1 - H304		Classification (67/548/EEC) Xn;R65. R10,R66,R67.	
METHANOL			<0.1%
CAS-No.: 67-56-1	EC No.: 200-659-6		
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25	
ZIRCONIUM PROPIONATE			<0.1%
CAS-No.: 84057-80-7	EC No.: 281-897-8	Registration Number: 01-2119978305-30-0000	
Classification (EC 1272/2008) Not classified.		Classification (67/548/EEC) Not classified.	
2,6-Di-tert-butyl-p-cresol			<0.1%
CAS-No.: 128-37-0	EC No.: 204-881-4	Registration Number: 01-2119565113-46-xxxx	
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		Classification (67/548/EEC) N;R50/53.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

#### Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### Ingestion

DO NOT induce vomiting. Get medical attention immediately. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

#### Skin contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.

#### Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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

## METACLOR UNDERWATER PRIMER - GREY

### General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

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

No specific first aid measures noted.

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

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

Unusual Fire & Explosion Hazards

FLAMMABLE. Solvent vapours may form explosive mixtures with air.

Specific hazards

When heated and in case of fire, harmful vapours/gases may be formed.

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Be aware of danger for fire to re-start. Cool containers exposed to flames with water until well after the fire is out. Do not allow runoff to sewer, waterway or ground.

Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Do not smoke, use open fire or other sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Should be prevented from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### **6.4. Reference to other sections**

For personal protection, see section 8.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using the product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

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

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: Oxidising material. Alkalis. Acids.

**METACLOR UNDERWATER PRIMER - GREY****Storage Class**

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage of Dangerous Substances: DSEAR. Up to 50 litres of liquids with a flashpoint below 32C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**Usage Description**

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2,6-Di-tert-butyl-p-cresol	WEL		10 mg/m3			
2-METHYLPENTANE-2,4-DIOL	WEL	25 ppm	123 mg/m3	25 ppm	123 mg/m3	
Calcium Carbonate	WEL		10 mg/m3			
Chlorinated polymer 20	WEL		10 mg/m3 total dust			
Diatomaceous Earth	WEL		1.2 mg/m3			
ETHANOL	WEL	1000 ppm	1920 mg/m3			
ETHYLBENZENE	WEL	100 ppm	441 mg/m3	125 ppm	552 mg/m3	Sk
Hydrocarbons, C9, aromatics	WEL	19 ppm	100 mg/m3			
Low Aromatic White Spirit	WEL		1000 mg/m3			
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	
PHTHALIC ANHYDRIDE	WEL		4 mg/m3(Sen)		12 mg/m3(Sen)	
TOLUENE	WEL	50 ppm	191 mg/m3	100 ppm	384 mg/m3	Sk
TRIZINC BIS(ORTHOPOSPHATE)			10 mg/m3			
WHITE SPIRIT	WEL		350 mg/m3			
XYLENE, MIXED ISOMERS	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk
Zinc Oxide	WEL		5 mg/m3		10 mg/m3	
ZIRCONIUM PROPIONATE	WEL		5 mg/m3		10 mg/m3	
ZIRCONIUM SALT, 2-ETHYLHEXANOIC ACID	WEL		5 mg/m3		10 mg/m3	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

**METACLOR UNDERWATER PRIMER - GREY****TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)**

DNEL				
Inhalation.	1.0 soluble Zn	mg/m3		
Inhalation.	5.0 insoluble Zn	mg/m3		
Professional	Dermal	Long Term	Systemic Effects	83 mg/kg/day
Professional	Inhalation.	Long Term	Systemic Effects	5 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	83 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	2.5 mg/m3
Consumer	Oral	Long Term	Systemic Effects	0.83 mg/kg/day
PNEC				
Freshwater	0.02 Zn	mg/l		
Marinewater	0.006 Zn	mg/l		
Sediment (Freshwater)	117.8	mg/kg		
Sediment (Marinewater)	56.5 Zn	mg/kg		
Soil	35.6 Zn	mg/kg		
STP	0.05 Zn	mg/l		

**Zinc Oxide (CAS: 1314-13-2)**

DNEL				
Professional	Oral	Local Effects	62.2	mg/kg/day
Professional	Dermal	Local Effects	6223	mg/kg/day
Professional	Inhalation.	Local Effects	6.2	mg/m3
Consumer	Inhalation.	Local Effects	3.1	mg/m3
Consumer	Dermal	Local Effects	622	mg/kg/day
PNEC				
Freshwater	25600	mg/l		
Marinewater	7600	mg/l		
Sediment (Freshwater)	146	mg/kg		
STP	64700	mg/l		
Sediment (Marinewater)	70.3	mg/kg		
Soil	44.3	mg/kg		

**Low Aromatic White Spirit**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	300 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	300 mg/kg/day
Industry	Dermal	Long Term	Systemic Effects	300 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	1500 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	900 mg/m3

No PNEC available. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

**WHITE SPIRIT**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	1040 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	1040 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	710 mg/m3
Consumer	Inhalation.	Short Term	Systemic Effects	570 mg/m3
Industry	Inhalation.	Short Term	Systemic Effects	570 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	1980 mg/m3
Industry	Dermal	Long Term	Systemic Effects	1056 mg/kg/day

**Hydrocarbons, C9, aromatics**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	11 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	11 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	32 mg/m3
Industry	Dermal	Long Term	Systemic Effects	25 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	100 mg/m3

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	12.5 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	1872 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	65.3 mg/m3
Consumer	Inhalation.	Short Term	260	mg/m3
Industry	Dermal	Long Term	Systemic Effects	3182 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	221 mg/m3
Industry	Inhalation.	Short Term	442	mg/m3

No PNEC available. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

**ETHYLBENZENE (CAS: 100-41-4)**

DNEL				
Consumer	Oral	Long Term	Systemic Effects	1.6 mg/kg/day



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Consumer	Dermal	Long Term	Systemic Effects	108 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	14.8 mg/m3
Industry	Dermal	Long Term	Systemic Effects	180 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	77 mg/m3
Industry	Inhalation.	Short Term	289	mg/m3

**2,6-Di-tert-butyl-p-cresol (CAS: 128-37-0)**

DNEL				
Industry	Dermal	0.5	mg/kg/day	
Industry	Inhalation.	3.5	mg/kg/day	
PNEC				
Freshwater	0.000199	mg/l		
Marinewater	0.0000199	mg/l		
Sediment	0.0996	mg/l		
Soil	0.04769	mg/l		

**8.2. Exposure controls**

Protective equipment



Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

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. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****9.2. Other information****SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not determined.

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

**10.5. Incompatible materials**

**METACLOR UNDERWATER PRIMER - GREY**

## Materials To Avoid

Strong alkalis. Strong acids. Strong oxidising substances.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

## Inhalation

Vapour from this chemical can be hazardous when inhaled. Vapour may irritate respiratory system or lungs.

## Ingestion

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

## Skin contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

## Eye contact

May cause temporary eye irritation.

## Health Warnings

This product has low toxicity. Only large volumes may have adverse impact on human health.

## Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

## Medical Considerations

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

Toxicological information on ingredients.**2-BUTANONE OXIME (CAS: 96-29-7)**

Toxic Dose 1 - LD 50

2528 mg/kg (oral rat)

Toxic Conc. - LC 50

>10.5 mg/l/4h (inh-rat)

Other Health Effects

Carcinogen Category 2.

Aspiration hazard:

General information

Known or suspected carcinogen for humans.

Skin contact

May cause sensitisation by skin contact. Harmful in contact with skin.

**METACLOR UNDERWATER PRIMER - GREY**  
**TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)**

Toxic Dose 1 - LD 50  
>5000 mg/kg (oral rat)  
Toxic Dose 2 - LD 50  
522 mg/kg (ipr-mouse)  
Toxic Conc. - LC 50  
>5.7 mg/l/4h (inh-rat)

Acute toxicity:

Not irritating

Skin Corrosion/Irritation:

Not irritating.

Serious eye damage/irritation:

Not Irritating.

Respiratory or skin sensitisation:

Not sensitising.

Not Sensitising.

Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity:

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

General information

No specific health warnings noted.

**METACLOR UNDERWATER PRIMER - GREY**  
**WHITE SPIRIT**

**Other Health Effects**

This substance has no evidence of carcinogenic properties.

**Acute toxicity:**

Acute Toxicity (Oral LD50)

&gt; 15000 mg/kg Rat

Minimally toxic via ingestion

Acute Toxicity (Dermal LD50)

~ 3400 mg/kg Rabbit

Not corrosive to skin Not irritating

Acute Toxicity (Inhalation LC50)

&gt; 13.1 mg/l (vapours) Rat 4 hours

**Serious eye damage/irritation:**

Not Irritating.

**Respiratory or skin sensitisation:**

Respiratory sensitisation

Not determined.

There is evidence that the material can lead to respiratory hypersensitivity.

Not Sensitising.

**Carcinogenicity:**

Carcinogenicity

NOAEL 300 mg/kg Oral Rat

**Reproductive Toxicity:**

Reproductive Toxicity - Fertility

One-generation study: NOAEL &gt;3000 mg/kg/day Oral Rat P

Reproductive Toxicity - Development

Developmental toxicity: NOAEC &gt;300 ppm Inhalation. Rat

**Specific target organ toxicity - single exposure:**

Target Organs

Central nervous system

**Specific target organ toxicity - repeated exposure:**

STOT - Repeated exposure

NOAEL 1056 mg/kg Oral Rat

**Aspiration hazard:**

Viscosity

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

Inhalation

No specific health warnings noted.

Ingestion

Harmful: may cause lung damage if swallowed. May cause stomach pain or vomiting.

Skin contact

May cause defatting of the skin, but is not an irritant. Not a skin sensitiser.

Eye contact

No specific health warnings noted.

Route of entry

Skin and/or eye contact. Inhalation.

Target Organs

Central nervous system

## METACLOR UNDERWATER PRIMER - GREY

### Hydrocarbons, C9, aromatics

#### Acute toxicity:

Acute Toxicity (Oral LD50)

~ 3592 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 3160 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 6193 mg/l (vapours) Rat 4 hours

#### Serious eye damage/irritation:

Slightly Irritating.

#### Respiratory or skin sensitisation:

Not sensitising.

Not Sensitising.

#### Carcinogenicity:

This substance has no evidence of carcinogenic properties.

#### Specific target organ toxicity - single exposure:

Target Organs

Central nervous system Respiratory system, lungs

#### Aspiration hazard:

Viscosity

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

**METACLOR UNDERWATER PRIMER - GREY**  
**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

Acute toxicity:

Acute Toxicity (Oral LD50)

4300 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 1700 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

5000 ppmV (gas) Rat 4 hours

Serious eye damage/irritation:

Severe skin irritant; irritation of eyes is assumed. No testing is needed.

Respiratory or skin sensitisation:

Not sensitising.

Not Sensitising.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity:

This substance has no evidence of toxicity to reproduction.

Aspiration hazard:

Viscosity

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

Inhalation

Harmful by inhalation.

Ingestion

Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Skin contact

Harmful in contact with skin.

Eye contact

May cause severe irritation to eyes.

Target Organs

Central nervous system Liver

**METACLOR UNDERWATER PRIMER - GREY**  
**ETHYLBENZENE (CAS: 100-41-4)**

Acute toxicity:

Acute Toxicity (Oral LD50)

3523 mg/kg Rat

Acute Toxicity (Dermal LD50)

12126 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

27000 mg/l (vapours) Rat 4 hours

Serious eye damage/irritation:

Severe skin irritant; irritation of eyes is assumed. No testing is needed.

Respiratory or skin sensitisation:

Not sensitising.

Not Sensitising.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Aspiration hazard:

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Ecological information on ingredients.

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

Ecotoxicity

The product is not expected to be hazardous to the environment.

**ETHYLBENZENE (CAS: 100-41-4)**

Ecotoxicity

Not regarded as dangerous for the environment.

### **12.1. Toxicity**

**METACLOR UNDERWATER PRIMER - GREY**Ecological information on ingredients.**2-BUTANONE OXIME (CAS: 96-29-7)**

Acute Fish Toxicity

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l

&gt;100

EC 50, 48 Hrs, Daphnia, mg/l

201

IC 50, 72 Hrs, Algae, mg/l

11.8

**TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)**

LC 50, 96 Hrs, Fish mg/l

Oncorhynchus mykiss 0.14 - 0.26 Zn<sup>2+</sup>

EC 50, 48 Hrs, Daphnia, mg/l

Daphnia magna 0.04 - 0.86 Zn<sup>2+</sup>

IC 50, 72 Hrs, Algae, mg/l

Desmodesmus subspicatus &lt;0.3

EC50 72 hours 0.136 - 0.15 Zn<sup>2+</sup> mg/l Selenastrum capricornutum**WHITE SPIRIT**

Dangerous for the environment if discharged into watercourses Toxic to aquatic organisms

LC 50, 96 Hrs, Fish mg/l

10 - 30

EC 50, 48 Hrs, Daphnia, mg/l

10 - 22

IC 50, 72 Hrs, Algae, mg/l

4.6 - 10

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days &lt; 0.28 mg/l Daphnia magna

**Hydrocarbons, C9, aromatics**

Toxic to aquatic organisms

LC 50, 96 Hrs, Fish mg/l

9.2

EC 50, 48 Hrs, Daphnia, mg/l

3.2

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

LC 50, 96 Hrs, Fish mg/l

2.6

EC 50, 48 Hrs, Daphnia, mg/l

3.62

IC 50, 72 Hrs, Algae, mg/l

3.2

**ETHYLBENZENE (CAS: 100-41-4)**

LC 50, 96 Hrs, Fish mg/l

4.2

EC 50, 48 Hrs, Daphnia, mg/l

&gt;2.93

IC 50, 72 Hrs, Algae, mg/l

2.2

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days 6.8 mg/l Daphnia magna

**12.2. Persistence and degradability**

Degradability

The product is not expected to be biodegradable.



**METACLOR UNDERWATER PRIMER - GREY**Ecological information on ingredients.**WHITE SPIRIT**

## Degradability

The product is easily biodegradable.

## Biodegradation

Degradation (75%) 28 days

**Hydrocarbons, C9, aromatics**

## Degradability

The product is easily biodegradable.

## Biodegradation

Degradation (78%) 28 days

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

## Degradability

The product is easily biodegradable.

**ETHYLBENZENE (CAS: 100-41-4)**

## Degradability

The product is easily biodegradable.

**12.3. Bioaccumulative potential**

## Bioaccumulative potential

The product contains potentially bioaccumulating substances.

Ecological information on ingredients.**2-BUTANONE OXIME (CAS: 96-29-7)**

## Bioaccumulative potential

Will not bio-accumulate.

## Partition coefficient

log Pow 0.63

**TRIZINC BIS(ORTHOPOSPHATE) (CAS: 7779-90-0)**

## Bioaccumulative potential

The product is not bioaccumulating.

**WHITE SPIRIT**

## Bioaccumulation factor

Scientifically unjustified.

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Hydrocarbons, C9, aromatics**

## Bioaccumulative potential

No data available on bioaccumulation.

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

## Partition coefficient

log Kow 3.12 - 3.2

**12.4. Mobility in soil**

## Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Ecological information on ingredients.**2-BUTANONE OXIME (CAS: 96-29-7)**

## Mobility:

The product is soluble in water.

**WHITE SPIRIT**

## Adsorption/Desorption Coefficient

Scientifically unjustified.

Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.

**Hydrocarbons, C9, aromatics**

## Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**METACLOR UNDERWATER PRIMER - GREY****12.5. Results of PBT and vPvB assessment**Ecological information on ingredients.**TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)**

Not Classified as PBT/vPvB by current EU criteria.

**WHITE SPIRIT**

Not Classified as PBT/vPvB by current EU criteria.

**Hydrocarbons, C9, aromatics**

Not Classified as PBT/vPvB by current EU criteria.

**XYLENE, MIXED ISOMERS (CAS: 1330-20-7)**

Not Classified as PBT/vPvB by current EU criteria.

**ETHYLBENZENE (CAS: 100-41-4)**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

Ecological information on ingredients.**2-BUTANONE OXIME (CAS: 96-29-7)**

Not determined.

**TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)**

Not available.

**WHITE SPIRIT**

This substance may contribute to ozone formation in the near surface atmosphere. However, the photochemical formation of ozone depends on a complex interaction of other atmospheric pollutant sources and environmental conditions. Therefore, the contribution of this substance to ozone formation is outside the scope of this substance assessment and is more appropriately addressed via EU air quality directives.

**Hydrocarbons, C9, aromatics**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

## General information

Do not allow to enter drains, sewers or watercourses.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

## Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11\* (SOLVENT BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing dried residues of the supplied coating, are categorised as hazardous waste, with code 08 01 11\* (SOLVENT BASED LIQUID WASTE). If mixed with other wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging).

**SECTION 14: TRANSPORT INFORMATION**

## General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

**14.1. UN number**

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

**14.2. UN proper shipping name**

Proper Shipping Name	Contains Solvent Naphtha (Petroleum), Class 3, PGIII, (38 °C), Trizinc bis(orthophosphate), MARINE POLLUTANTS
Proper Shipping Name	PAINT

**METACLOR UNDERWATER PRIMER - GREY****14.3. Transport hazard class(es)**

ADR/RID/ADN Class	1263
ADR/RID/ADN Class	Class 3: Flammable liquids.
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

**14.4. Packing group**

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**

EMS	F-E, S-E
Tunnel Restriction Code	(D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

Guidance Notes

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

**METACLOR UNDERWATER PRIMER - GREY**

## 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

## Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Substitution of neodecanoate acid, cobalt salt with cobalt polymer complex. Revised classification of zinc phosphate.

Issued By	Technical Dept. (P.E.)
Revision Date	02/12/2013
Revision	10
Supersedes date	01/10/2013
SDS No.	10228
Safety Data Sheet Status	Approved.
Date	Date Printed _____
Signature	Initials _____

## Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R21	Harmful in contact with skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R63	Possible risk of harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.
R41	Risk of serious damage to eyes.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**METACLOR UNDERWATER PRIMER - GREY**

## Hazard Statements In Full

H370	Causes damage to organs <<Organs>>.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.