SAFETY DATA SHEET
ZINC PHOSPHATE PRIMER - RED

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME ZINC PHOSPHATE PRIMER - RED
PRODUCT NO. 514/P201/24
APPLICATION Paint
SUPPLIER TEAL & MACKRILL LIMITED
LOCKWOOD STREET
HULL
HU2 0HN
+44(0)1482 320194
+44(0)1482 219266
info@teamac.co.uk
CONTACT PERSON as above

2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>202-436-9</td>
<td>95-63-6</td>
<td>1-5%</td>
<td>R10 Xn;R20 Xi;R36/37/38 N;R51/53</td>
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<tr>
<td>BENZENE</td>
<td>200-753-7</td>
<td>71-43-2</td>
<td>&lt; 1</td>
<td>F;R11 Carc. Cat. 1;R45 Muta. Cat. 2;R46 T;R48/23/24/25 Xn;R65 Xi;R36/38</td>
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<tr>
<td>CUMENE</td>
<td>202-704-5</td>
<td>98-82-8</td>
<td>&lt; 1</td>
<td>R10 Xn;R65 Xi;R37 N;R51/53</td>
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<tr>
<td>ETHYL METHYL KETOXIME</td>
<td>202-496-6</td>
<td>96-29-7</td>
<td>&lt; 1</td>
<td>Carc3;R40 Xn;R21 R43 Xi;R41</td>
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<td>ETHYLBENZENE</td>
<td>202-849-4</td>
<td>100-41-4</td>
<td>&lt; 1</td>
<td>F;R11 Xn;R20</td>
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<tr>
<td>LO White Spirit</td>
<td>265-150-3</td>
<td>64742-48-9</td>
<td>1-5%</td>
<td>Xn;R65. R10, R66.</td>
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<tr>
<td>MESITYLENE</td>
<td>203-604-4</td>
<td>108-67-8</td>
<td>1-5%</td>
<td>R10 Xi;R37 N;R51/53</td>
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<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPH.</td>
<td>265-191-7</td>
<td>64742-88-7</td>
<td>10-30%</td>
<td>Xn;R65. N;R51/53. R10,R66.</td>
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<td>XYLENE</td>
<td>215-535-7</td>
<td>1330-20-7</td>
<td>1-5%</td>
<td>R10 Xn;R20/21 Xi;R38</td>
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<tr>
<td>Zinc phosphate</td>
<td>231-944-3</td>
<td>7779-90-0</td>
<td>1-5%</td>
<td>N;R50/53.</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases are Displayed in Section 16

3 HAZARDS IDENTIFICATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.
CLASSIFICATION N;R51/53. R66.

4 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

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.

5 FIRE-FIGHTING MEASURES

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.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS
FLAMMABLE. Solvent vapours may form explosive mixtures with air.

SPECIFIC HAZARDS
By heating and fire, harmful vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE
Selection of respiratory protection for fire fighting; follow the general fire precautions indicated in the workplace.

6 ACCIDENTAL RELEASE MEASURES

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

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.

SPILL CLEAN UP METHODS
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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Observe workplace 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.

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

STORAGE PRECAUTIONS

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 250 litres of liquids with a flashpoint above 32°C but below 55°C 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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION
### ZINC PHOSPHATE PRIMER - RED

**Name**  
ZINC PHOSPHATE PRIMER - RED

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT - ppm</th>
<th>LT - mg/m3</th>
<th>ST - ppm</th>
<th>ST - mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE</td>
<td>WEL</td>
<td>3 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XYLENE</td>
<td>WEL</td>
<td>50 ppm(Sk)</td>
<td>220 mg/m3(Sk)</td>
<td>100 ppm(Sk)</td>
<td>441 mg/m3(Sk)</td>
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<tr>
<td>ETHYLBENZENE</td>
<td>WEL</td>
<td>100 ppm(Sk)</td>
<td>441 mg/m3(Sk)</td>
<td>125 ppm(Sk)</td>
<td>552 mg/m3(Sk)</td>
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<tr>
<td>CUMENE</td>
<td>WEL</td>
<td>25 ppm(Sk)</td>
<td>125 mg/m3(Sk)</td>
<td>50 ppm(Sk)</td>
<td>250 mg/m3(Sk)</td>
</tr>
<tr>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>WEL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INGREDIENT COMMENTS**  
WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**

**ENGINEERING MEASURES**

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

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace 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.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE**  
Viscous Coloured liquid

**COLOUR**  
Red

**SOLUBILITY**  
Insoluble in water

**RELATIVE DENSITY**  
1.3 approx. @ 20

**VISCOSITY**  
3.5 (Rotomatic) Ps @ 25

**FLAMMABILITY LIMIT - LOWER(%)**  
0.8

**FLAMMABILITY LIMIT - LOWER(%)**

**10 STABILITY AND REACTIVITY**

**STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

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

**MATERIALS TO AVOID**


**HAZARDOUS DECOMPOSITION PRODUCTS**

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

**11 TOXICOLOGICAL INFORMATION**
ZINC PHOSPHATE PRIMER - RED

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.

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

12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

BIOACCUMULATION
The product contains potentially bioaccumulating substances.

DEGRADABILITY
The product is not expected to be biodegradable.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION
Do not allow to enter drains, sewers or watercourses.

DISPOSAL 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).

14 TRANSPORT INFORMATION

UK ROAD CLASS 3.3
PROPER SHIPPING NAME PAINT PRODUCT
ROAD TRANSPORT NOTES Avoid releasing to the environment.
RAIL TRANSPORT NOTES Avoid releasing to the environment.
SEA TRANSPORT NOTES Do not release into the environment.
UN NO. ROAD 1263
ADR CLASS NO. 1263
ADR PACK GROUP III
UK ROAD PACK GR. III
ADR CLASS
Class 3: Flammable liquids.
ZINC PHOSPHATE PRIMER - RED

HAZARD NO. (ADR)  30  Flammable liquid
(flash-point between 23°C and 61°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 61°C, heated to a temperature equal to or above its flash-point, or self heating liquid.

UN NO. SEA  1263
IMDG PACK GR.  III
MARINE POLLUTANT  

15 REGULATORY INFORMATION

LABELLING

RISK PHRASES
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.

SAFETY PHRASES
S29 Do not empty into drains.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
P14 Contains ETHYL METHYL KETOXIME. May produce an allergic reaction.

UK REGULATORY REFERENCES
ENVIRONMENTAL LISTING
EU DIRECTIVES

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

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

NATIONAL REGULATIONS

16 OTHER INFORMATION
ZINC PHOSPHATE PRIMER - RED

REVISION COMMENTS
Addition of references to Manual Handling Regulations and Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) in Section 7; Classification of Wastes in Section 13; associated Regulatory References in Section 15.

ISSUED BY
Technical Dept. (P.E.)

REVISION DATE 28/03/2006
REV. NO./REPL. SDS GENERATED 2
SDS NO. 10598

SAFETY DATA SHEET STATUS
Approved.

DATE Date printed
SIGNATURE Initials

RISK PHRASES IN FULL
R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R21 Harmful in contact with skin.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

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.