

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 01

1. PRODUCT AND COMPANY IDENTIFICATION

1.01 Product Code fZRPRIME
 1.02 Product Name ZINC RICH PRIMER
 1.03 Synonyms
 1.04 Intended Use A solvent borne paint for industrial finishing.
 Application may be by spray or special processes.
 1.05 Manufacturer/Supplier B Rourke & Co Ltd
 1.06 Address Accrington Road
 Burnley
 Lancashire
 BB11 5QD
 1.07 Contact Health & Safety Dept
 1.08 Phone Number 01282-422841
 1.09 Fax Number 01282-430240
 1.10 Emergency Phone Number 01282-422841

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.01 General Information The hydrocarbon solvents used in this product
 contain less than 0.1% (w/w) of BENZENE.
 2.02 Substances presenting a health or environmental hazard within the
 meaning of the CHIP Regulations or which are assigned occupational
 Exposure Limit Values.

Name	% Conc.	EC No.	Symbol	R-Phrases
(CAS 007440-66-6) ZINC DUST stabilised	> 50	231-592-0	N	R50/53
(CAS 001330-20-7) XYLENE	10 - 25	215-535-7	Xn	R10 R20/21 R38
(CAS 000100-41-4) ETHYLBENZENE	1.0 - 2.5	202-849-4	F Xn	R11 R20
(CAS 064742-48-9) NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	1.0 - 2.5	265-150-3	Xn	R10 R65 R66

2.03 R-Phrases used

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.
R50/53	VERY 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.

3. HAZARD IDENTIFICATION

3.01 Main Hazards The product has been assigned the following
 indications of danger:

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 02

3. HAZARD IDENTIFICATION (continued)

FLAMMABLE, HARMFUL and
DANGEROUS FOR THE ENVIRONMENT

3.02 Health Effects - Skin HARMFUL IN CONTACT WITH SKIN.
3.03 Health Effects - Inhalation HARMFUL BY INHALATION.
3.04 General Information VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-
TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

4. FIRST AID MEASURES

4.01 General In all cases of doubt, or when symptoms persist,
seek medical attention. Never give anything by
mouth to an unconscious person.
4.02 First Aid - Eyes Remove contact lenses. Irrigate copiously with
clean, fresh water for at least 10 minutes holding
the eyelids apart, and seek medical advice.
4.03 First Aid - Skin Remove contaminated clothing. Wash skin
thoroughly with soap and water or use proprietary
skin cleaner. Do NOT use solvents or thinners.
4.04 First Aid - Ingestion If accidentally swallowed obtain immediate
medical attention. Keep at rest. Do NOT induce
vomiting.
4.05 First Aid - Inhalation Remove to fresh air, keep the patient warm and
at rest. If breathing has stopped, administer
artificial respiration. Give nothing by mouth. If
unconscious, place in the recovery position and
seek medical help.

5. FIRE FIGHTING MEASURES

5.01 Extinguishing Media Alcohol resistant foam, carbon dioxide, powder,
water spray/mist.
5.02 Unsuitable Extinguishing Media Water jet.
5.03 Special Hazards Fire will produce dense black smoke containing
hazardous products of combustion. (See Section 10)
5.04 Protective Equipment Appropriate self-contained breathing apparatus
may be required.
5.05 Combustion Products Exposure to decomposition products may be a hazard
to health.
5.06 Recommendations Cool closed containers exposed to fire with water
spray. Do not allow run-off from fire fighting to
enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.01 Personal precautions Avoid breathing vapours. Refer to the protective
measures listed in Sections 7 and 8.
6.02 Environmental precautions Do not allow to enter drains or water courses. If
the product enters drains or sewers, the local
water company should be contacted immediately; in
the case of contamination of streams, rivers or
lakes, the relevant environment agency.
6.03 Large spillages/disposal Contain and collect spillages with absorbent
material which is non-combustible, e.g. sand, earth
vermiculite, diatomaceous earth and place in a
suitable container for disposal in accordance with
the waste regulations. (See Section 13).

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 03

6. ACCIDENTAL RELEASE MEASURES (continued)

6.04 General information
Clean preferably with a detergent, avoid the use of solvents.
Exclude sources of ignition and ventilate the area, also exclude non-essential personnel.

7. HANDLING & STORAGE

7.01 Handling

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational Exposure Limit Values.

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.

The product may charge electrostatically. Always use earthing leads when transferring from one container to the other. Operators should wear anti-static footwear and clothing. Floors should be electrically conductive.

Keep container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.

Avoid skin and eye contact. Avoid the inhalation of vapour and mist.

Smoking, eating and drinking should be prohibited in storage and use areas.

For Occupational Exposure Control measures see Section 8.

Never use pressure to empty: The container is not a pressure vessel. Always keep in containers made of the same material as the supply container.

The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers of products. To assist in calculating the weight of the pack, the pack size in litres can be multiplied by the density given in Section 9. This will give the nett weight of the product in kilograms. Packaging allowance will be needed to estimate gross weight.

7.02 Storage

Observe the label precautions. Store between 5 C and 25 C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

No smoking. Prevent unauthorised access.

Containers which are opened should be properly resealed and kept upright to prevent leakage.

The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmospheres Regulations. Small quantities (up to 50 litres) of flammable liquids in closed containers can be kept within the work room in a suitably placed cupboard or bin which is of fire-resisting structure and is designed to retain spills. Material that is not in use should

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
FZRPRIME

Page 04

7. HANDLING & STORAGE (continued)

be returned to the designated storage area.
Further guidance is contained in the HSE guidance note, Storage of Flammable Liquids in Containers.
The principles contained in the HSE guidance note Storage of Packed Dangerous Substances, should be observed when storing this product.
Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.01 Occupational exposure standards

Substance		Occupational Exposure Limits				Note
		8 Hr. TWA		15 Min. STEL		
		ppm	mg/cu. m	ppm	mg/cu. m	
ZINC DUST stabilised	OES	4.00				
XYLENE	OES	50.00	220.00	100.00	441.00	Sk
ETHYLBENZENE	OES	100.00	441.00	125.00	552.00	Sk
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	OES	300.00	1000.00			SUP

8.02 General Information

Notes:
(1) TWA is the Long Term Exposure Limit based on an 8 hour Time Weighted Average period.
(2) STEL is the Short Term Exposure Limit of 15 minutes.
(3) "Sk" indicates a risk of exposure through the skin. "Sen" indicates a respiratory sensitiser "Carc" indicates a carcinogen.
(4) WEL indicates a Work Exposure Limit. These are taken from EH40/2005, except those marked 'SUP' which are assigned by the supplier of the substance.
Addenda: The HSE adopted a new Work Exposure Limits (WELs) system during 2005. All of the previous MELs and some OESs have been transferred to the new system.
For sprayed products the 8 hour TWA's are:-
RESPIRABLE PARTICULATES 5 mg/cu.m (OEL)
TOTAL INHALABLE PARTICULATES 10 mg/cu.m (OEL)

ENVIRONMENTAL EXPOSURE CONTROLS:
See Section 12 for detailed information.

8.03 Engineering control measures

Provide adequate ventilation. Where reasonably practical 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/or solvent vapours below the relevant Exposure Limit Values, suitable respiratory equipment must be worn. (See Occupational Exposure Controls below.)

OCCUPATIONAL EXPOSURE CONTROLS:
All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

8.04 Respiratory protection

Air-fed respiratory protective equipment should

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 05

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

be worn when this product is sprayed if the exposure of the sprayer or other people nearby can not be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn. Air-fed respiratory protection should be used when painting in poorly ventilated or confined spaces.

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

8.05 Hand protection

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage and maintenance and replacement must be followed.

Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

8.06 Eye protection

Eye protection designed to protect against liquid splashes should be worn.

8.07 Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

9. PHYSICAL & CHEMICAL PROPERTIES

9.01 Physical State	Viscous liquid
9.02 Colour	Grey
9.03 Odour	Typical of xylene
9.04 Boiling point/range degC	136-142
9.05 Flash point	26 C BS3900:A9
9.06 Lower Explosion Limit %	1.1
9.07 Solubility in water	Immiscible
9.08 Vapour pressure	0.93 kPa @ 20 C
9.09 Density or relative density	2.5-2.7 BS3900:A19
9.10 Flammability	Flammable
9.11 Auto-flammability	480 C
9.12 Viscosity	10-15 p @ 20 C (RT)
9.13 Vapour density (air=1)	Heavier than air
9.14 General Information	VOC is 420-430 gram/litre

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 06

10. STABILITY & REACTIVITY

- 10.01 Stability Stable under the recommended storage and handling conditions. (See Section 7).
Keep dirty wipers in an enclosed container.
- 10.02 Conditions to avoid Heat, sparks, flames and other ignition sources.
- 10.03 Materials to avoid Keep away from oxidising agents and strongly acidic and strongly alkaline materials to prevent the possibility of exothermic reaction.
- 10.04 Hazardous decomposition In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

- 11.01 General Information There is no data on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes 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. See Sections 3 and 15 for details of the resulting classification.
- Exposure to organic solvent vapours in excess may result in adverse health effects, such as irritation of the mucous membrane and the respiratory system 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 product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
- Splashes in the eyes may cause irritation and reversible local damage.

12. ECOLOGICAL INFORMATION

- 12.01 General Information There is no data on the product itself.
- The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly. See Sections 3 and 15 for details.
- This product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- The Air Pollution Control requirements of the regulations made under the Environmental Protection Act may apply to the use of this product. See also Sections 5,6 and 13.

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 07

13. DISPOSAL

- 13.01 Product/Container Disposal Do NOT allow into drains or water courses or dispose of where ground or surface waters may be affected.
Wastes, including empty containers, are controlled wastes and should be disposed of in accordance with the regulations made under the Control of Pollution Act and the Environmental Protection Act.
- 13.02 General Information Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Special Waste Regulations apply.

14. TRANSPORT INFORMATION

- 14.01 UN Number 1263
14.02 UN Proper Shipping Name PAINT
14.03 UN Class 3
14.04 UN Packing Group III
14.05 IMDG Ems F-E, S-E
14.06 UK Transport Classification 595
14.07 General Information Transport to be in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air.

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 accident or spillage.

15. REGULATORY INFORMATION

- 15.01 General Information The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety legislation.
The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.
The product is classified and labelled in accordance with the CHIP Regulations as follows:
- 15.02 EC Symbols Flammable Xn Harmful
N Dangerous for the Environment
- 15.03 R Phrases R10 R20/21 R50/53
15.04 S Phrases S02 S09 S23/38
S36/37 S43 S61
15.05 P Phrases P01
- 15.06 Substances which should appear on the label.
- | Name | Conc. Range % |
|--------|---------------|
| XYLENE | 10 - 25 |
- 15.07 R-Phrases / S-Phrases used
P01 Before use - refer to the safety data sheet.
R10 FLAMMABLE.

SAFETY DATA SHEET

ZINC RICH PRIMER

Version 5.03 2005,24 March
fZRPRIME

Page 08

15. REGULATORY INFORMATION (continued)

R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S02	Keep out of reach of children.
S09	Keep container in a well ventilated place.
S23/38	Do not breathe spray. In case of insufficient ventilation wear suitable respiratory equipment.
S36/37	Wear suitable protective clothing and gloves.
S43	In case of fire use alcohol resistant foam, carbon dioxide, powder or water spray/mist.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

16.01 Uses and Restrictions The product should not be used for purposes other than 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 suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

16.02 Revisions highlighted Section 2: Risk phrases for ZINC indicated.
Sections 3 and 15: Phrase R50/53 & symbol included

16.03 General Information The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP Regulations.

Further information and relevant advice can be found in:
The Control of Substances Hazardous to Health Regulations 2002(SI 2002: 2677).
COSHH Essentials: easy steps to control chemicals, HSG 193. HSE books. Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in this publication.
The Dangerous Substances & Explosive Atmospheres Regulations 2002(SI 2002: 2776).
The Manual Handling Operations Regulations 1992, (SI 1992:2793), The Stationery Office.
Chemical Warehousing: Storage of Flammable Liquids in Containers(HSG51), HSE Books.
Storage: Packaged Dangerous Substances HSG71, HSE.
The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992: 2839), TSO.
A Guide to Working with Solvents (INDG 272), HSE.

16.04 Footnote The information contained in this data sheet is based on the present state of knowledge and current national 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.

* * * * End of Data Sheet * * * *