

PRODUCT NAME**Ferrozinc****HMG PAINTS LTD**

Collyhurst Road

Manchester, M40 7RU

Tel: 0161 205 7631 - Fax: 0161 205 8823

www.hmgpaint.comsales@hmgpaint.com

Issue date 31/07/2003
Formula number 8457
Product code PRIFERRO
Printed date Tue 31/08/04 at 12:32:30

PACKAGING

Available in 1 & 5 litre containers.

PRODUCT FUNCTION

FERROZINC is a high performance water thinnable rust converter. It is an easily applied single pack material with excellent long term conversion properties. In many situations blast cleaning is not cost effective or practical, and though Ferrozinc is not an equivalent alternative to shot blasting, it does offer a far superior performance than conventional coatings applied to slightly rusted surfaces.

FERROZINC is used after simple wire brushing to remove surface rust. A dramatic colour change from white to black will show that the rust has been effectively neutralised.

FERROZINC should then be overcoated with a suitable primer & topcoat system for prolonged corrosion resistance.

Salt spray and extended durability testing has proven FERROZINC to out-perform competitive rust conversion materials.

TECHNICAL INFORMATION

Flashpoint	N/A - Waterborne
Specific Gravity	1.38 approximately
Viscosity	2000 centi-poise (Brookfield viscometer)
Storage	12 months in original sealed containers
Flash off period	15 - 30 minutes
pH	2.0

APPLICATION AND USAGE DATA

Touch dry	20-30 minutes
Firm dry	1 hours
Hard dry	2-3 hours
Thinners	Water
Overcoating	After 2 -3 hours with HMG Primer & Topcoat systems
Eqp. cleaning	Water - Do not allow spillages to dry
Coverage	20 square metres per litre
VOC	29g/l

COLOUR RANGE

Not applicable

SPECIAL PROPERTIES

- Self indicating rust conversion.
- Ease of application.

PREPARATION

Surfaces should be wire brushed to remove loose rust, soluble salts should be removed by washing with water, as they may slow down the conversion process.

FERROZINC should not be used over oil/grease contamination, or existing paint as this will render the product ineffective.

HOW TO USE

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Airless | <input checked="" type="checkbox"/> Brush | <input type="checkbox"/> Electrostatic | <input checked="" type="checkbox"/> HVLP |
| <input checked="" type="checkbox"/> Conventional spray | <input type="checkbox"/> Dipping | <input checked="" type="checkbox"/> Roller | <input checked="" type="checkbox"/> See application data |

APPLICATION

FERROZINC may be applied over damp, but not wet surfaces.

Application is best carried out by brush, to ensure penetration into all rust contaminated areas.

Technical Data Sheets are also available on our website at www.hmgpaint.com

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Very soon after applying, a colouration is apparent, indicating the rust conversion process has taken place.

Subsequent overcoating can be carried out using most primer & topcoat systems, after FERROZINC is thoroughly dried.

NB. If used externally, adverse weather conditions and ambient temperature can dramatically increase drying times of waterborne products.

Application of FERROZINC can be done using spray equipment, but prolonged exposure of FERROZINC to metal spray equipment parts may cause damage to those parts. Always ensure that spray equipment is thoroughly cleaned after use.

Ensure that only a thin film of FERROZINC is applied to convert the corroded areas as a thicker film will not increase the conversion of corroded areas & will dramatically increase the drying time of the coating.

HEALTH AND SAFETY

- Refer to health and safety data sheet and tin label prior to use.
- When spraying, suitable respiratory equipment should be worn.

Technical Data Sheets are also available on our website at www.hmgpaint.com

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Ref:46



Material Safety Data Sheet According to 91/155 EEC

Printing date 27.08.2004

Reviewed on 22.01.2001

1 Identification of the substance/preparation and of the company/undertaking

HMG

· Product details**· Trade name:** Ferrozinc**· Article number:** 8457**· Application of the substance / the preparation** Coating compound/ Surface coating/ paint**· Manufacturer/Supplier:**HMG PAINTS LTD. RIVERSIDE WORKS, COLLYHURST RD,
COLLYHURST, MANCHESTER, M40 7RU.
TEL 0161 205 7631**· Further information obtainable from:** LABORATORY

2 Composition/information on ingredients

· Chemical characterization**· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural		10-25%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol	☒ Xn; R 20/21/22-36/38	£ 2.5%

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

3 Hazards identification

· Hazard description: Not applicable.**· Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First-aid measures

· General information: No special measures required.**· After inhalation:** Supply fresh air; consult doctor in case of complaints.**· After skin contact:** Immediately wash with water and soap and rinse thoroughly.**· After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**· After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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· **Protective equipment:** Put on breathing apparatus

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
No special measures required.
Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** None.

8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

7727-43-7 barium sulphate, natural

OES	Long-term value: 10* 4** mg/m ³ *total inhalable dust **respirable dust
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111-76-2 2-butoxyethanol

OES	Long-term value: 123 mg/m ³ , 25 ppm Sk, Bmgv
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· **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **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.

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- **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:** Goggles recommended during refilling

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 23.0 hPa

· **Density at 20°C:** 1.402 g/cm³

· **Solubility in / Miscibility with water:** Fully miscible.

· Solvent content:

Organic solvents:	2.4 %
Water:	35.8 %

· **Solids content:** 61.8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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GB

Material Safety Data Sheet

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When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of soap and water.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
Water	35.8
II	2.4

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.

- **Relevant R-phrases**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

- **Department issuing MSDS:** Product safety department: LABORATORY

- **Contact:** Health & Safety Officer