

# CORIUM Z10R-R Liquid Rust Remover & Passivator

---

Corium Z10 R-R (Rust Remover) is a fully concentrated, liquid rust remover and oxidation inhibitor, designed to replace, dangerous muriatic, sulphuric and hydrochloric acids. Corium Z10 R-R does not require that treated surfaces be neutralized after treatment, unlike other commonly used acids, and passivates these surfaces to inhibit further rusting. (Some low quality ferrous surfaces may tend to oxidize rapidly after treatment with Corium Z10 R-R. Wash off Corium Z10 R-R and treat such surfaces with Corium Z127 penetration oil.)

Corium Z10 R-R immediately reacts with existing rust and rapidly removes even deeply-encrusted rusting efficiently. Generally, no post application treatment is required, which eliminates a costly and time-consuming step that is necessary with ordinary rust removal compounds.

## RUST INHIBITING ACTION

---

With ordinary rust removers, great care must be exercised in the handling and application. After applying, all treated surfaces have to be carefully rinsed of even the minutest amounts of rust remover. Ordinary rust removers can remove rust but, just as quickly, the strongly acid reaction will promote further rusting. Normally, a highly time-consuming post treatment clean-up must be carried out immediately.

Corium Z10 R-R however acts quickly to remove the existing rust and actually forms a microscopic "rust barrier" on treated surfaces and protects them from the further onset of rust. This unique 2-in-1 action of Corium Z10 R-R can save countless hours of equipment downtime in de-rusting procedures.

## IN-BUILT SAFETY FACTORS

---

Corium Z10 R-R is completely non-flammable and can therefore be used on or near operating equipment. It will not give off any obnoxious odors and will not fume. Short-term, incidental contact with hands or skin is not normally critical although a thorough rinsing of affected parts with clean water is normal routine.

## FULLY CONCENTRATED FOR ECONOMY IN USE

---

© Copyright, all rights reserved.

Magna Industrial reserves the right to modify or change this product for purposes of improving its performance characteristics.

CPIM Z10.1	Version 1.0	Revision 1.0	Rev. Date: February 16, 2000	Reference: LUN
------------	-------------	--------------	------------------------------	----------------

Corium Z10 R-R, unlike other rust removing compounds, comes fully concentrated and should be diluted with clean water for normal applications. Only in the case of extremely deep-seated rusting, should Corium Z10 R-R at full strength, be considered for use.

## HOW TO APPLY

### SURFACE PREPARATION

---

Rust scaling, loose rust 'grains' and other surface contamination (paints, grease, oil or grit) should be removed by wire-brushing, sanding or scraping prior to applying Corium Z10 R-R. This will enable Corium Z10 R-R to work at maximum efficiency on the 'ingrained' rusting.

### APPLICATION

---

Corium Z10 R-R is extremely versatile in application. It can be applied equally well with a brush for localized rust spots; through a spray gun for maximum coverage; or by using a roller. Small parts can also be dipped in Corium Z10 R-R for total rust removal.

Pitted or areas that present difficult access should receive special attention when applying Corium Z10 R-R to ensure complete coverage.

- (1) Lightly rusted parts or surfaces can be treated with a diluted Corium Z10 R-R solution in the ratio 1 part Corium Z10 R-R to 2 parts water.
- (2) For medium or surface rust applications, Corium Z10 R-R should be diluted in the ratio 1 part Corium Z10 R-R to 1 part water.
- (3) For extremely ingrained and deep-seated or heavily rusted applications, use Corium Z10 R-R at full strength. Especially difficult to remove rusted areas may require full strength re-application after 45 minutes.

### POST-APPLICATION

---

No neutralizing is required as Corium Z10 R-R leaves a rust inhibiting coat on treated parts that will retard future rusting.

© Copyright, all rights reserved.

Magna Industrial reserves the right to modify or change this product for purposes of improving its performance characteristics.

CPIM Z10.2	Version 1.0	Revision 1.0	Rev. Date: February 16, 2000	Reference: LUN
------------	-------------	--------------	------------------------------	----------------

# MAGNA INDUSTRIAL CO. LIMITED

*Total Quality Maintenance*

---

1801, Guardian House, 32 Oi Kwan Road, Wanchai, Hong Kong Tel: (852) 2577 5187 Fax: (852) 2577 3190  
E-Mail: [magna@magnagroup.com](mailto:magna@magnagroup.com) Web Site: [www.magnagroup.com](http://www.magnagroup.com)

CZ-10 p.1

---

## MATERIAL SAFETY DATA SHEET

DATE 01 Aug 2014

---

### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name/Code** CORIUM Z10R-R

#### Company Identification

Omega Manufacturing Division,  
Magna Industrial Co. Limited,  
1801, Guardian House,  
32 Oi Kwan Road,  
Wanchai, Hong Kong.

#### Distributor

Alshawi Trading,  
Block 351, Road 51, Bldg 20, Manama - Bahrain.  
[www.alshawitrading.com](http://www.alshawitrading.com)  
[info@alshawitrading.com](mailto:info@alshawitrading.com)  
P.O.Box 33526

Telephone (852) 25775187  
Fax (852) 25773190

Telephone (973) 1755 0019  
Fax (973) 1755 5108

---

### SECTION 2 - HAZARDS IDENTIFICATION

Corrosive product.

---

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>Wt.%</u>	<u>Classification</u>
Phosphoric acid	7664-38-2	30-60	C;R34
Alcohols, C12-13, Ethoxylated	66455-14-9	1-5	Xn;R22, Xi;R41 N;R50

---

### SECTION 4 - FIRST-AID MEASURES

Eye Contact: Flush with plenty of water for at least 15 minutes. Seek immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. Obtain medical attention in case of skin irritation or other cause for concern.

Inhalation: Move patient to open air.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

# MAGNA INDUSTRIAL CO. LIMITED

*Total Quality Maintenance*

---

1801, Guardian House, 32 Oi Kwan Road, Wanchai, Hong Kong Tel: (852) 2577 5187 Fax: (852) 2577 3190  
E-Mail: [magna@magnagroup.com](mailto:magna@magnagroup.com) Web Site: [www.magnagroup.com](http://www.magnagroup.com)

CZ-10 p.2

---

## SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Foam, carbon dioxide and dry chemicals.

Special Protective Equipment for Fire Fighters: N.A.

Unusual Fire and Explosion Hazards: Reacts with water releasing heat and steam.

---

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Transfer bulk of material into another container. Neutralizes with either sodium carbonate or bicarbonate. Absorb remaining residue with proper absorbents such as sand, vermiculite. Sweep up and dispose of in accordance with local and national regulations.

---

## SECTION 7 - HANDLING AND STORAGE

Keep locked up and containers closed. Avoid contact with skin, eyes and clothing, wash thoroughly after handling. Wash clothing before reuse. Keep away from feed and food products. Keep out of reach of children. Never add water to this product.

---

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### ACGIH TLV

Phosphoric acid 1 mg/m<sup>3</sup>

Eye Protection: Safety goggles

Hand Protection: Rubber or plastic oil resistant gloves.

Ventilation: Use under well ventilated conditions.

---

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue clear liquid

Odour: Acid odour

pH: 1-2

# MAGNA INDUSTRIAL CO. LIMITED

*Total Quality Maintenance*

---

1801, Guardian House, 32 Oi Kwan Road, Wanchai, Hong Kong Tel: (852) 2577 5187 Fax: (852) 2577 3190  
E-Mail: [magna@magnagroup.com](mailto:magna@magnagroup.com) Web Site: [www.magnagroup.com](http://www.magnagroup.com)

**CZ-10 p.3**

Specific Gravity: 1.14  
Vapour Pressure: 16mmHg @20°C  
Boiling Point: 100°C  
Melting Point: N.A.  
Flash Point: None  
Flammability: N.A.  
Evaporation Rate: ~1 (water = 1)  
Solubility in Water: Soluble

---

## SECTION 10 - STABILITY AND REACTIVITY

Stable

Materials to Avoid: Alkaline materials and metals.

Toxic compounds may form on thermal decomposition. Hazardous combustion products: Strong acidic fume.

---

## SECTION 11 - TOXICOLOGICAL INFORMATION

There is no lethal dose information available.

Inhalation: Irritating to the respiratory system.

Skin: Cause irritating

Eyes: Cause severe burns.

Ingestion: Cause severe burns of internal organs.

---

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: The product may affect the acidity in water with risk of harmful effects to aquatic organisms. The product contains a small amount of a substance which is very toxic to aquatic organisms.

Mobility: No data available.

# MAGNA INDUSTRIAL CO. LIMITED

*Total Quality Maintenance*

---

1801, Guardian House, 32 Oi Kwan Road, Wanchai, Hong Kong Tel: (852) 2577 5187 Fax: (852) 2577 3190  
E-Mail: [magna@magnagroup.com](mailto:magna@magnagroup.com) Web Site: [www.magnagroup.com](http://www.magnagroup.com)

**CZ-10 p.4**

---

## SECTION 13 - DISPOSAL CONSIDERATIONS

Comply with all local and national regulations regarding disposal.

---

## SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: PHOSPHORIC ACID, SOLUTION.

UN Number: 1805

IATA Class: 8, Packing Group: III

IMDG Class: 8, Packing Group: III

---

## SECTION 15 - REGULATORY INFORMATION

-

---

## SECTION 16 - OTHER INFORMATION

R-phrases: R22 – Harmful if swallowed.

R34 – Causes burns.

R41 – Risk of serious damage to eyes.

R50 – Very toxic to aquatic organisms.

S-phrases: S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39 - Wear suitable protective clothing, gloves and eyes/face protection

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

---

**Remarks:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.