

SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Section I

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| Product Name | RC 293 |
| Product Description | Rust Converter |
| Supplier | Goldcrest International Singapore Pte Ltd 38 Tech Park Crescent Singapore 638098 Tel: (65) 6862 6006 Fax: (65) 6863 3 665 Email: sales@goldcrest.com.sg |

HAZARD IDENTIFICATION

Section II

GHS Classification

Skin Corrosion/irritation Category 1

GHS Label Elements



Signal Word: Danger

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Hazard Statements

H314: Causes severe skin burns and eye damage

Precautionary Statements

Prevention

P260 Do not breathe dust/fumes/gas/mist/vapour/spray

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth do not induce vomiting

P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

INGREDIENTS

Section III

| <u>Materials</u> | <u>%</u> | <u>Cas No.</u> | <u>Symbol</u> | <u>R-Phrases</u> |
|------------------|----------|----------------|----------------|------------------|
| Citric Acid | 10-20% | 5949-29-1 | S24/25 | R36 |
| Tannic Acid | 10-20% | 1401-55-4 | | |
| Isopropanol | 10-20% | 71-23-8 | S7/16/24/26/39 | R11-41-67 |
| Water | 50-60% | | | |
| Surfactant | 1-5% | | | |

FIRST AID MEASURES

Section IV

Spills on Eyes

Flush eyes with large amount of water until

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| Spills on Skin | irritation subsides. Always consult an ophthalmologist. Wash with plenty of water and then apply a dressing of 1% Sodium Bicarbonate solution. |
| Ingestion | Do not induce vomiting. Keep at rest. Drink as much water as required. Seek medical assistance immediately. |
| Inhalation | Using proper respiratory protection, move affected person to a ventilated area and give prompt medical attention. |

FIRE FIGHTING MEASURES

Section V

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| Extinguishing Methods | Water (mist) foam, dry powder, carbon dioxide. |
| Flash Point | Nil |
| Flammable limits in air % by vol | Nil |
| Special Fire Fighting Procedures | Control water used and preventing it from reaching waterways. |
| Special Protection Gears In The Event of Fire | Use Protective clothing, goggles, overalls, rubber-boots, face mask to protect against splashes. |

ACCIDENTAL RELEASE MEASURES

Section VI

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| Personal Protection Gears In The Event of Spill | Use face mask, rubber boots, acid proof overalls. Avoid contact with spill. Never act without protective clothing. |
| Environmental Precautions | Prevent product access to rivers and canals. For small spill neutralize with Sodium Bicarbonate or a mixture of soda ash/slaked lime. Shovel residue into plastic containers for temporary storage on site for subsequent disposal. For large spills contain with |

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earth/sand. Neutralize any residue as per small spills.

HANDLING AND STORAGE

Section VII

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| Handling Recommendation | Personal protective gear must prevent any risk of skin or eye contact with the product like face mask, goggles, rubber gloves, boots, acid proof or water proof overalls. |
| Ventilation | (1) Local exhaust: None should be needed. (2) Mechanical (general) recommended showers, eye washes. |
| Precautionary Measures | Ensure staff is aware of hazards. Do not smoke, drink or eat in storage areas or during handling. |
| Storage Temperature | Ambient |
| Storage Materials | Mild steel or plastic drums |

PERSONAL PROTECTION/EXPOSURE CONTROL

Section VIII

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| Exposure/Contact Effects | Irritant to skin and eyes |
| Eyes | Goggles or face shield |
| Hands | Rubber gloves |
| Breathing | Dust proof mask |
| Skin | Acid proof overalls |
| Others | Plastic aprons, rubber boots |
| Special | Safety showers, eye washes |
| Breathing | Canister respirators approved for acid mist |
| Head Protection | Safety helmet or other suitable head protection gear |

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PHYSICAL AND CHEMICAL PROPERTIES

Section IX

| | |
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| Appearance @ 25 Deg C | Dark Brown liquid |
| Color | Brown |
| Odor | Not applicable |
| Odor Threshold | Not applicable |
| Solubility in water | In all proportions |
| Boiling Point | Not established |
| Flash Point | Not applicable |
| Volatiles | Nil |
| Vapor Density | Not applicable |
| Ignition Point | Not applicable |
| M-a (Free acidity) | 1.6-2.0 |
| P-a (Total acidity) | 5.5-7.0 |
| Decomposition Temperature | No data |
| Specific Gravity | 1.12 +/- 0.02 |
| 1% pH | 2.5-3.0 |
| Flammability | Non flammable |

STABILITY AND REACTIVITY

Section X

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| Stability | Stable |
| Hazardous Polymerization | Will not occur |
| Incompatibilities | React vigorously with bases with evolution of heat. Avoid contact with strong oxidizing/reducing agents. Can react with sulphides, phosphates, cyanides, acetylides, fluorides, silicides and carbides to produce flammable poisonous gases. |

TOXICOLOGICAL INFORMATION

Section XI

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| Toxicity | Non toxic |
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| Risk from Eye and Skin Contact | Corrosive. Can cause burns to exposed tissues |
| Inhalation | When handling heated solutions the mist generated can irritate air passage. |
| Ingestion | Can cause severe intestinal irritation and damage if consumed. |

ENVIRONMENTAL INFORMATION

Section XII

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| Effects on Environment | Due to acidic nature high concentrations in receiving water will injure aquatic life. Low concentration may act as a plant nutrient. |
| Mobility | Prevent drainage into sewers and water ways. |
| Aquatic Toxicity | Expected to be dangerous to aquatic life in higher concentrations. |
| Persistence and degradability | Product is not expected to biodegrade completely |

DISPOSAL PROCEDURES

Section XIII

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| Disposal Method | Neutralize with Sodium Bicarbonate or a mixture of soda ash/slaked lime. Shovel residue into plastic container and dispose as per your company procedure. |
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TRANSPORTATION INFORMATION

Section XIV

Not classified as hazardous for transport

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REGULATORY INFORMATION

Section XV

Sale, use transport, storage and disposal of this product is controlled by the environmental pollution control regulations.

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| R34 | Causes burns |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |

OTHER INFORMATION

Section XVI

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| Training/Emergencies | Instruct staff on product risk. |
| Recommended Use | Metal surface treatment |
| MSDS Issued On | August 2015 |

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