

# SAFETY DATA SHEET

## RANEX RUST BUSTER

Infosafe No.: HXR67  
Version No.: 1.0  
ISSUED Date: 14/11/2014  
ISSUED BY BONDALL PTY LTD

### 1. IDENTIFICATION

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**GHS Product Identifier**

RANEX RUST BUSTER

**Product Code**

91000, 91010, 91020, 91030, 91040.

**Company Name**

BONDALL PTY LTD (ABN 27 008 734 996)

**Address**

113 Belmont Avenue  
Belmont  
WA 6104 Australia

**Telephone/Fax Number**

Tel: (08) 6272 3800  
Fax: (08) 9277 4068

**Emergency phone number**

0400 705 773 or Poisons Information Centre: 13 11 26

**Recommended use of the chemical and restrictions on use**

Rust conversion; rust and stain remover; cleaner.

### 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Skin Corrosion/Irritation: Category 1

Eye Damage/Irritation: Category 1

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H314 Causes severe skin burns and eye damage.

**Precautionary Statement (s)**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

**Pictogram (s)**

Corrosion

**Precautionary statement – Prevention**

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

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

**Precautionary statement – Response**

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P304+P340 IF INHALED: Remove 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.

P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

**Precautionary statement – Storage**

P405 Store locked up.

**Precautionary statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Name	CAS	Proportion
Phosphoric acid	7664-38-2	30-60 %
Ferrous sulphate	7720-78-7	0-<10 %
Ingredients determined not to be hazardous, including water.		Balance

## 4. FIRST-AID MEASURES

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### **Inhalation**

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

### **Ingestion**

If swallowed, do NOT induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

### **Skin**

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

### **Eye contact**

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

### **First Aid Facilities**

Eye wash fountain, safety shower and normal washroom facilities.

### **Advice to Doctor**

Treat symptomatically.

### **Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## 5. FIRE-FIGHTING MEASURES

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### **Suitable Extinguishing Media**

Use carbon dioxide, dry chemical, foam, water mist or water spray.

### **Unsuitable Extinguishing Media**

Water jet

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including phosphoric acid fumes and phosphorous oxides.

### **Specific Hazards Arising From The Chemical**

This product is non combustible. However heating can cause expansion or decomposition leading to violent rupture of containers. Contact with common metals produces hydrogen which may form flammable mixtures with air.

### **Hazchem Code**

2R

## **Decomposition Temperature**

Not available

## **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. As a water based product, if spilt on electrical equipment the product will cause short-circuits. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Note: Neutralise with sodium bicarbonate ( $\text{NaHCO}_3$ ) or a mixture of soda ash/slaked lime. Shovel residue into containers for disposal. Lime is the preferred neutralising agent because of the low solubility of the calcium phosphate formed.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Corrosive liquid. Attacks skin and eyes. Causes burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Avoid contact with eyes. Avoid contact with skin. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Soda ash or lime should be kept nearby for emergency use. When preparing or diluting acid solutions the acid should be added slowly to water with plenty of careful stirring. This will prevent splattering, overheating and splashing of the acid. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool dry well-ventilated area. Protect from freezing. Store away from oxidising agents and bases. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. The area should have an acid resistant floor and approved drainage. Store in original packages as approved by manufacturer. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780-2008: The storage and handling of corrosive substances. Reference should also be made to all State and Federal regulations.

### **Corrosiveness**

Corrosive to most metals

### **Storage Temperatures**

To prevent crystallisation of concentrated acid:

Minimum: 21°C for 85% solutions

Minimum: 4°C for 80% solutions

### **Recommended Materials**

Glass or acid resistant materials.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Occupational exposure limit values**

No exposure value assigned for this material. However, the available exposure limits for ingredients are listed below:

Phosphoric acid

TWA: 1mg/m<sup>3</sup>

STEL: 3mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### **Biological Limit Values**

No biological limits allocated.

### **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### **Eye Protection**

Safety glasses with full-face shield should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### **Hand Protection**

Wear gloves of impervious material such as nitrile rubber or laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### **Footwear**

Wear safety footwear. Final choice will vary according to individual circumstances. Reference should be made to AS/NZS 2210.1: 2010 Safety, protective and occupational footwear-Guide to selection, care and use.

**Body Protection**

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

Clear, colourless, syrupy liquid

**Colour**

Colourless

**Odour**

Odourless

**Decomposition Temperature**

Not available

**Melting Point**

Not available

**Boiling Point**

>100°C

**Solubility in Water**

Soluble

**Specific Gravity**

>1.20

**pH**

1.5 (1% phosphoric acid)

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Slower than butyl acetate

**Odour Threshold**

Not available

**Viscosity**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

Not applicable

**Flammability**

Not flammable

**Auto-Ignition Temperature**

Not applicable

**Flammable Limits - Lower**

Not applicable

**Flammable Limits - Upper**

Not applicable

**10. STABILITY AND REACTIVITY**

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**Reactivity**

Reacts with incompatibles.

**Chemical Stability**

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Strong bases, oxidising agents, reducing agents, sulphides, phosphides, metals, cyanides, acetylides, fluorides and carbides.

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including oxides of phosphorus.

**Possibility of hazardous reactions**

Reacts with incompatibles to release toxic or flammable gases including hydrogen.

**Hazardous Polymerization**

Will not occur.

**11. TOXICOLOGICAL INFORMATION**

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**Toxicology Information**

No toxicity data available for this material. The available acute toxicity data for the ingredients is given below.

**Acute Toxicity - Oral**

Phosphoric acid:

LD50(rat): 1,530mg/kg

**Acute Toxicity - Dermal**

Phosphoric acid:  
LD50(rabbit): 2,740mg/kg

### **Ingestion**

Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

### **Inhalation**

Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema. Prolonged inhalation can cause necrosis of nasal passages.

### **Skin**

Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

Phosphoric acid:  
Skin irritation, rabbit (Standard draize test): 595mg/24h; Severe

### **Eye**

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Phosphoric acid:  
Eye irritation, rabbit (Standard draize test): 119mg; Severe

### **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

Not expected to be a skin sensitiser.

### **Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

### **Carcinogenicity**

Not considered to be a carcinogenic hazard.

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

### **STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

### **STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

## **12. ECOLOGICAL INFORMATION**

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### **Ecotoxicity**

No ecological data available for this material.



**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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**Transport Information**

This material is classified as Dangerous Goods Class 8 Corrosive Substances according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic Peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substances

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis.

Packing Group I and II acids and alkalis should be considered as strong.

**Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 1805

Proper Shipping Name: PHOSPHORIC ACID SOLUTION

Class: 8

Packaging Group: III

EMS No.: F-A, S-B

Special provision(s): 223

**Air Transport (ICAO/IATA):**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1805

Proper Shipping Name: Phosphoric acid, solution

Class: 8

Packing Group: III

Label: Corrosive

Packing Instruction: 852 (For passenger and cargo aircraft)

Packing Instruction: 856 (For cargo aircraft only)

Special provisions(s): A3, A803

**U.N. Number**

1805

**UN proper shipping name**

PHOSPHORIC ACID, SOLUTION

**Transport hazard class(es)**

8

**Packing Group**

III

**Hazchem Code**

2R

**EPG Number**

8A1

**IERG Number**

37

**IMDG Marine pollutant**

No

**15. REGULATORY INFORMATION**

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

S6

**Australia (AICS)**

All components of this product are listed on the Inventory or exempted.

## 16. OTHER INFORMATION

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### Date of preparation or last revision of SDS

SDS reviewed: November 2014

Supersedes: March 2010

### References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

### Contact Person/Point

Chemist: Tel No: (08) 6272-3800

Emergency: Tel No: 0400 705 773

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## END OF SDS

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