

# Material Safety Data Sheet Rust Off

## Section 1. Identification

**Product Name:** RUST OFF

**Recommended Use:** Anti Scaling - De-Rusting Solution

**Supplier:** Genesis Industrial Pty Ltd, 6 Ginger Street, Paget 4740 **Phone No:** 07 49522608

**Emergency Phone No - 13 11 26 – Poisons Information Centre**

## Section 2. Hazards Identification

Classified as hazardous according to the Office of Australian Safety & Compensation Council (ASCC) criteria

A DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE

Risk Phrases    Safety Phrases

C - Corrosive

R35:            May Cause Burns

S37:            Wear suitable Gloves

R41:            Risk of serious damage to eyes

S39:            Wear eye/face protection

## Section 3. Composition Information

Ingredient Name	CAS No	Proportions
Phosphoric Acid	7664-38-2	30 - 60%
Surfactant	139-13-9	0 – 10%
Corrosion Inhibitor	Proprietary	0 – 5 %
Water		Balance

## Section 4. First Aid

### FIRST AID TREATMENT

**Swallowed:** Immediately rinse mouth with copious amounts of water. Seek immediate medical attention.

**Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes or until advised by the Poisons Information Centre or a doctor. Seek immediate medical attention.

**Skin:** If spilt on large area of skin or hair, immediately drench with running water and remove contaminated clothing. Continue to wash skin and hair with plenty of water until advised to stop by the Poisons Information Centre or a doctor. Seek medical attention.

**Inhaled:** Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing. Seek immediate medical advice.

**First Aid facilities:** Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

**Advice to Doctor:** Treat symptomatically.

**Additional Information:** None available.

## Section 5. Fire Fighting Measures

**Specific Hazards:** Non-combustible material. Will decompose in fire conditions, releasing toxic and irritating oxides of phosphorus. Contact with common metals produces hydrogen which may form flammable mixtures with air.

**Suitable Extinguishing Media:** Foam, dry chemical powder, carbon dioxide, water spray or water fog. Do not use water jets.

**Hazards from combustion products:** Decomposes on heating, emitting toxic fumes.

**Precautions for Fire Fighters and Special Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

**Additional Information:** Hazchem code 2R.

## Section 6. Accidental Release Measures

Observe all local and national regulations.

**Spills and Disposal:** Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contact and breathing mist. Work upwind or increase ventilation. Cover with absorbent inert material, sand or soil. Sweep or vacuum up, but avoid generating dust/mist. Collect and seal in properly labelled containers or drums for disposal. Caution – heat may be evolved on contact with water. If contamination of sewers or waterways has occurred advise local emergency services.

**Methods and Materials for Containment and Clean Up Procedures:** For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

## Section 7. Handling and Storage

**Storage:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from strong alkalis and moisture. Keep containers closed at all times – check regularly for spills.

## Section 8. Exposure Controls and Personal Protection

**Exposure Standards:** National Occupational Health & Safety Commission (NOHSC) Worksafe Australia has set an exposure standard 3mg/m<sup>3</sup> STEL, 1mg/m<sup>3</sup> TWA

**Biological Limit Values:** No biological limit allocated.

### Personal Protective Equipment:

**Respiratory Protection:** In instances where concentrations are likely to exceed the exposure limits, an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.

**Hand Protection:** Use impervious gloves.

**Eye Protection:** Wear safety goggles, safety glasses with side shields or full face shield as appropriate. Eye protection should conform with AS/NZS 1337 –Eye Protectors for Industrial Applications.

**Protective Clothing:** Use chemical resistant glove/gauntlets, boots and overalls.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Always wash hands before eating, drinking or using the toilet.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Liquid	<b>Colour:</b>	Pink/Orange
<b>Vapour Pressure:</b>	Not determined	<b>Specific Gravity:</b>	1.28
<b>Flashpoint:</b>	Not determined	<b>Flammability Limits</b>	Not determined
<b>Solubility:</b>	Soluble in water	<b>pH:</b>	1.5

## Section 10. Stability and Reactivity

**Chemical Stability:** Stable under normal storage conditions.

**Conditions to Avoid:** Will absorb moisture from the atmosphere. Reacts exothermally with water.

**Incompatible Materials:** Incompatible and will react with strong bases, strong oxidising and reducing agents, sulphides, phosphides, cyanides, acetylides, fluorides and carbides releasing flammable or toxic gases.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions oxides of phosphorus.

## Section 11. Toxicological Information

*Acute:*

**Swallowed:** LD50 (oral rate), 1530mg/kg. Ingestion of this product may cause burns to the mouth and throat, pain in the stomach, difficulty in breathing, nausea, vomiting diarrhoea, and convulsions. It may cause gastric or oesophageal perforation.

**Eye:** Corrosive to eyes. Mists may cause severe eye irritation. When splashed in the eyes, concentrated solutions can cause severe burns, pain and permanent eye damage.

**Skin:** LD50 (dermal, rabbit), 2740 mg/kg. Corrosive to skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

**Inhaled:** Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

**Chronic:** Prolonged exposures can cause necrosis of nasal passages and oedema of the lungs.

### Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Corrosive and causes severe skin irritation and can cause severe skin burns. Eyes: Corrosive. Liquid or vapor causes severe eye irritation and can cause severe eye burns leading to permanent corneal damage or chemical conjunctivitis. Ingestion: May be harmful if swallowed. Causes irritation and burns of the gastrointestinal (digestive) tract. Causes severe pain, nausea, vomiting, diarrhea, hematemesis, gastrointestinal haemorrhaging, and shock.

## Section 12. Ecological Information

Ecotoxicity: Not known Persistence & Degradability: Not known The products of degradation are less toxic than the product itself.

## Section 13. Disposal Considerations

**Disposal Method:** Refer to State/Territory Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

**Section 14. Transport Information**

UN Number:	1805	Proper Shipping Name:	PHOSPHORIC ACID
Class:	8	Subsidiary Risk:	None
Packing Group:	III	Hazchem Code:	2R
Special Precautions for User:	None		

**Section 15. Regulatory Information**

Poisons Schedule : 6

AICS : Listed

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76:2010) : 37

**Section 16. Other Information**

*This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

**Contact Person/Point** Genesis Industrial Pty Ltd, Technical Manager

MSDS Date: 25<sup>th</sup> February 2016