Corrosion Technologies
P. O. Box 551625
Dallas, Texas 75355-1625
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Rust Remover Safety Data Sheet

1. IDENTIFICATION

1.1 Product Identifier

Product Name: Rust Remover
Product Numbers: 22103, 22004, 22005, 22002, 22001
Synonyms: Not applicable
SDS Number: Not applicable
Issue Date: 7 October 2015
Version Number: NZ2.0
Revision Date: 17 April 2019

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Corrosion Inhibitor / Moisture Displacer
Uses advised against: Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Corrosion Technologies
2638 National Drive, Garland, TX 75041
Telephone: 972-271-7361
Fax: 972-278-9721
Email: info@corrosionx.com
Website: www.corrosionx.com
Distributor in New Zealand: Corrosion Control NZ
48 Riverside drive
Whangarei 0112
Northland
New Zealand
Tel: +64 9-438-88-00
Email: tom@corrosionx.org

1.4 Emergency Telephone Number

Poisons Information Centre
NZ Poison emergency no: 0800 POISON (0800 764 766)
For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24-hour emergency telephone, call CHEMTREC® New Zealand (Auckland) +(64)-98010034.

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)
Skin Irritation — Category 1B
Eye Irritation — Category 1

Physical Hazard(s)
Corrosive to metals — Category 1

Hazard(s) not otherwise classified
None

Labeling

Signal Word: **DANGER**
Pictograms: Corrosion



Statements of Hazard

Hazard Statements
Causes severe skin burns and serious eye damage
May be corrosive to metals

Precautionary Statements
Wear protective gloves, eye and face protection. Do not breathe mist or vapors. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling. Keep only in original container. Absorb spillage to prevent material damage. Store in corrosive resistant container with resistant inner liner. Dispose of contents and container in accordance with applicable regulations.
If on skin: Rinse skin with water or shower. Immediately call a poison center or doctor.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Phosphoric acid	7664-38-2	35-40*

* Exact percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice: Causes severe skin burns and serious eye damage. Avoid contact. Avoid breathing vapors or mist.
Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Immediately call a poison center or doctor.
Eye Contact: Immediately flush cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
Ingestion: Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Immediately call a poison center or doctor.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Suitable: Carbon Dioxide, Dry Chemical, and Foam
Unsuitable: Alcohol, Alcohol based solutions
Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.
Unusual Fire and Explosion Hazards: Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc.
Hazardous Combustion/ Decomposition Products: Oxides of carbon, phosphorous, and nitrogen; phosphine

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions / **Protective Equipment** / **Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.
Methods and materials for containment and cleaning up: Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Flush surfaces with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Do not store or dispense into metal containers. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according to local / national regulations.

7. HANDLING AND STORAGE

HANDLING
Precautions for Safe Handling: Avoid skin and eye contact. Do not breathe mist or vapors. Use with adequate ventilation. Follow all SDS/label precautions.
STORAGE
Conditions to avoid: Store in a cool, dry, well-ventilated place in the original container. Do not transfer or store in metal containers. Keep container tightly closed when not in use. Avoid excess heating and high temperatures. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

	ACGIH		OSHA			
Component	**TLV ppm**	**TLV mg/m3**	**PEL ppm**	**PEL mg/m3**	**STEL ppm**	**STEL mg/m3**
Phosphoric acid	-	1	-	1	-	3

Engineering Controls: Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.
Personal Protection
Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator with acid vapor cartridge.
Hand / **Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.
Eye / **Face Protection:** Face shield with safety glasses with side-shields.
General Hygiene Measures: Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. An eyewash station and washing facilities should be readily accessible to the area of use. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent	**Autoignition Temperature:**	Not applicable
Physical State:	Non-viscous liquid	**Percent Volatile by volume:**	>78
Odor:	None	**Vapor Density (Air=1):**	1
Color:	Colorless	**Evaporation Rate (BuAc= 1):**	<1
Viscosity, cSt @ 40℃:	Not established	**Vapor Pressure, mmHg @23℃:**	18
cSt @ 100℃:	Not established	**Solubility in water:**	Complete
pH:	<1	**Octanol/Water Partition:**	Not established
Boiling Point/ Range:	>200℉ / 93℃	**VOC Content (g/L) (%):**	40 (4)
Melting Point:	>32℉ / 0℃	**Specific Gravity @15.6℃:**	1.22
Flash Point:	Non-flammable	**Pour Point:**	Not established
Method:	Not applicable	**Non-volatile by Volume (%):**	22
Lower Explosive Limit, vol %:	Hydrogen, 4	**Dielectric Strength:**	Not applicable
Upper Explosive Limit, vol %:	Hydrogen, 75		

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures
Conditions to Avoid: Heat and direct sunlight.
Hazardous Polymerization: Will not occur.
Materials to Avoid: Aluminum and other reactive metals, leather, oxidizing agents, alkali/ bases, chlorate, nitrates, sulfides, and sulfites

11. TOXICOLOGICAL INFORMATION

Product Information: Not established
Ingredient Information: Phosphoric acid: Orl-rat LD50 - 1530 mg/kg, Skn-rabbit LD50 - 2740 mg/kg, Ihl-rat LC50 - 25.5 mg/m^3

Acute Effects

Signs and Symptoms of Overexposure: Skin burns and serious eye damage, Coughing, Sneezing
Inhalation: Vapors and mist may cause severe respiratory burns with nasal discomfort and discharge, coughing and sneezing, difficult breathing and shortness of breath.
Skin Contact: Causes redness, blistering, pain and burns.
Eye Contact: Causes tearing, redness, pain, swelling of the conjunctiva and burns. May cause blindness.
Ingestion: Causes burns to the esophagus and stomach with pain, nausea, vomiting and diarrhea. May be fatal.

Primary Route(s) of Exposure: Eyes, Skin, Inhalation
Primary Route(s) of Entry: Inhalation, Ingestion
Target Organs: Skin, eyes, respiratory system, bones, and teeth
Chronic Effects: None known
Carcinogenicity: Not established
Medical Conditions Aggravated by Exposure: May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.

12. ECOLOGICAL INFORMATION

Product Data: Not established
Ingredient Data: Phosphoric acid: Toxicity to Fish LC50 = Mosquito Fish 138 mg/L 96 h
Elimination Information: Not established

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with local regulations.
Container: Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

Road Transport
DOT Hazard Class: 8
Description: Corrosive
Packing Group: III
UN-No.: 1805
Proper Shipping Name: Phosphoric acid solution

Sea Transport
IMDG/GGV See Class: 8
UN-No.: UN1805
Packing Group: III
Proper Shipping Name: Phosphoric acid solution

Air Transport
ICAO/IATA Class: 8
UN-No.: UN1805
Packing Group: III
Shipping Name: Phosphoric acid solution

15. REGULATORY INFORMATION

U.S. Federal Regulations
Toxic Substances Control Act (TSCA): All components are included on the Inventory
Superfund Amendments and Reauthorization Act (SARA) Title III:

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	-	-	-	-

New Zealand
Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.
HSNO classification: 8.1A , 8.2B, 8.3A
HSNO approval: Corrosion Inhibitors (Corrosive) Group Standard 2017 - HSR002547
NZIoC (New Zealand Inventory of Chemicals): All components are listed on the NZIoC inventory or are exempt.

16. OTHER INFORMATION

Prepared by: Corrosion Technologies Technical Services Department
Revision Date: 17 April 2019 **Supersedes Date:** 7 October 2015
Revision Indicator: v2.0 Addition of HSNO classification

National Fire Protection Association (704)
Health: 3 Flammability: 1 Reactivity: 0 Other: -

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: Corrosion Technologies (972) 271-7361.