

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

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**Section 1: Identification**

Product name : RUST KILLER

Product code : 000000000050629459

**Manufacturer or supplier's details**

BASF Coatings and Chemetall New  
Zealand Limited  
Level 1, 527A Rosebank Road, Avondale  
Auckland 1026  
New Zealand  
Telephone: 008 837 464, +64 9 820 3888  
Telefax number: +64 9 820 3979  
E-mail address: nzadmin@basf.com

**Emergency contact**

Telephone: +64 9 255-4300  
E-mail address: ProductSafety\_EC\_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766  
BASF Emergency Advice Number: 0800 944 955 (24 hour  
advice in an emergency only)  
BASF Emergency Advice Number: +61 3 8855 6666 (If  
calling from outside New Zealand)

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

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

Recommended use : Detergent

Restrictions on use : Uses other than recommended

**Section 2: Hazard identification****GHS Classification**

Corrosive to Metals : Category 1

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye  
irritation : Category 1**GHS label elements**

Hazard pictograms :



Signal Word : Danger

**RUST KILLER**

|         |                |                        |                                               |
|---------|----------------|------------------------|-----------------------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:                           |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025<br>Date of first issue: 07.03.2025 |

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Hazard Statements : H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
P234 Keep only in original packaging.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P310 IF INHALED: Remove person to

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 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/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.

P406 Store in a corrosion resistant container with a  
resistant inner liner.

**Disposal:**

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

**Other hazards which do not result in classification**

Classified as 'corrosive' due to pH value

If applicable information is provided in this section on other hazards which do not result in  
classification but which may contribute to the overall hazards of the substance or mixture.

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**Section 3: Composition/information on ingredients**

Substance / Mixture : Reaction Product

**RUST KILLER**

Version 2.0      Revision Date: 14.04.2025      SDS Number: 000000000050629459      Date of last issue: 07.03.2025  
Date of first issue: 07.03.2025

Chemical nature : organic compounds  
organic solvent  
Water  
inorganic acids

**Components**

| Chemical name           | Common Name/Synonyms                                                | CAS-No.     | Concentration (% w/w) |
|-------------------------|---------------------------------------------------------------------|-------------|-----------------------|
| phosphoric acid         | orthophosphoric acid (Solution)                                     | 7664-38-2   | >= 30 -< 50           |
| 2-butoxyethanol         | 2-butoxyethanol                                                     | 111-76-2    | >= 1 -< 10            |
| Propylheptanoethoxilate | Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy- | 160875-66-1 | >= 1 -< 3             |

**Section 4: First-aid measures**

General advice : First aid personnel should pay attention to their own safety.  
Immediately remove contaminated clothing.  
In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.  
Symptoms of poisoning may occur even after

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

several hours, continue medical observation for at least 48 hours after the accident.

Never give anything by mouth to an unconscious person.

Keep patient warm and at rest.

If inhaled : If breathed in, move person into fresh air.

Call a physician or poison control center immediately.

If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Call a physician immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Call a physician immediately.

If easy to do, remove contact lens, if worn.

If swallowed : Do not induce vomiting due to aspiration hazard.

Keep at rest.

If symptoms persist, call a physician or Poison Control Center immediately.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | Rinse mouth with water.                                                                                                                                                                                                                                                                                                                                                                                                                |
| Most important symptoms and effects, both acute and delayed | : Harmful if swallowed.<br>Causes serious eye damage.<br>Causes severe burns.<br><br>Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.<br><br>May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach. |
| Notes to physician                                          | : No known specific antidote.<br>Treat symptomatically.                                                                                                                                                                                                                                                                                                                                                                                |

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**Section 5: Fire-fighting measures**

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : Water spray jet<br>Dry powder<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> ) |
|------------------------------|------------------------------------------------------------------------------------------------|

|                                |                         |
|--------------------------------|-------------------------|
| Unsuitable extinguishing media | : High volume water jet |
|--------------------------------|-------------------------|

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

---

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Hazardous combustion products : Oxides of phosphorus

**Advice for firefighters**

Specific extinguishing methods : In the event of fire, cool tanks with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Hazchem Code : 2R

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

**Section 6: Accidental release measures**

|                                                                              |                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions,<br>protective equipment<br>and emergency<br>procedures | : Avoid breathing vapours.<br><br>Keep away from sources of ignition.<br><br>Advice on product handling can be found in sections<br>7 and 8 of this safety data sheet.<br><br>For non-emergency personnel:<br><br>For emergency responders:<br><br>Use personal protective equipment.<br><br>Ensure adequate ventilation, especially in confined<br>areas. |
| Environmental<br>precautions                                                 | : Do not allow uncontrolled discharge of product into<br>the environment.<br><br>Avoid subsoil penetration.<br><br>If the product contaminates rivers and lakes or drains<br>inform respective authorities.                                                                                                                                                |
| Methods and materials<br>for containment and<br>cleaning up                  | : Ensure adequate ventilation.<br><br>Contain spillage, soak up with non-combustible<br>absorbent material, (e.g. sand, earth, diatomaceous                                                                                                                                                                                                                |

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

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**Section 7: Handling and storage**

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.

The relevant fire protection measures should be noted.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

|                                           |                                                                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | Do not breathe vapors or spray mist.                                                                                                                |
| Hygiene measures                          | : Remove contaminated clothing immediately and dispose of safely.                                                                                   |
|                                           | Wash hands before breaks and at the end of workday.                                                                                                 |
|                                           | Keep away from food, drink and animal feedingstuffs.                                                                                                |
| Further information on storage conditions | : Avoid direct sunlight.                                                                                                                            |
|                                           | Store only in corrosion proof containers.                                                                                                           |
|                                           | Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. |
|                                           | Always keep in containers of same material as the original one.                                                                                     |
|                                           | Observe label precautions.                                                                                                                          |
|                                           | avoid contact with metals                                                                                                                           |
|                                           | Keep in a dry, cool and well-ventilated place.                                                                                                      |
| Materials to avoid                        | : Segregate from alkalies and alkalizing substances.                                                                                                |
|                                           | Bases                                                                                                                                               |
|                                           | Metals                                                                                                                                              |

**RUST KILLER**

Version 2.0      Revision Date: 14.04.2025      SDS Number: 000000000050629459      Date of last issue: 07.03.2025  
Date of first issue: 07.03.2025

Packaging material : Suitable material: High density polyethylene (HDPE),  
Low density polyethylene (LDPE),  
Polyethylenetherephtalate (PET), Polypropylene,  
Carbon steel (Iron), tinned carbon steel (Tinplate)

**Section 8: Exposure controls/personal protection****Ingredients with workplace control parameters**

| Components      | CAS-No.                              | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis  |
|-----------------|--------------------------------------|----------------------------------|---------------------------------------------------|--------|
| phosphoric acid | 7664-38-2                            | WES-TWA                          | 1 mg/m <sup>3</sup>                               | NZ OEL |
|                 |                                      | TWA                              | 1 mg/m <sup>3</sup>                               | ACGIH  |
|                 |                                      | STEL                             | 3 mg/m <sup>3</sup>                               | ACGIH  |
| 2-butoxyethanol | 111-76-2                             | WES-TWA                          | 25 ppm<br>121 mg/m <sup>3</sup>                   | NZ OEL |
|                 | Further information: Skin absorption |                                  |                                                   |        |
|                 |                                      | TWA                              | 20 ppm                                            | ACGIH  |

**RUST KILLER**

Version 2.0      Revision Date: 14.04.2025      SDS Number: 000000000050629459      Date of last issue: 07.03.2025  
Date of first issue: 07.03.2025

**Biological occupational exposure limits**

| Components      | CAS-No.  | Control parameter s     | Biological specimen | Sampling time                                            | Permissible concentration | Basis     |
|-----------------|----------|-------------------------|---------------------|----------------------------------------------------------|---------------------------|-----------|
| 2-butoxyethanol | 111-76-2 | Butoxyacetic acid (BAA) | Urine               | End of shift (As soon as possible after exposure ceases) | 200 mg/g creatinine       | ACGIH BEI |

**Engineering measures** : Ensure adequate ventilation.

**Personal protective equipment**

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Filter type : Inorganic gas/vapor type

Hand protection

Remarks : The selected protective gloves have to satisfy the

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. chloroprene rubber (CR) - 0.5 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness butyl rubber (butyl) - 0.7 mm coating thickness Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1 The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection

Eye protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

Protective measures : Do not breathe vapour/spray.

Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

**RUST KILLER**

|         |                |                        |                                               |
|---------|----------------|------------------------|-----------------------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:                           |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025<br>Date of first issue: 07.03.2025 |

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Handle in accordance with good industrial hygiene  
and safety practice.

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**Section 9: Physical and chemical properties**

|                             |                                  |
|-----------------------------|----------------------------------|
| Appearance                  | : liquid                         |
| Color                       | : colorless                      |
| Odor                        | : No data available              |
| Odor Threshold              | : not determined                 |
| pH                          | : 0.1 - 1.0 (20 °C)              |
| Melting point/ range        | : not determined                 |
| Boiling point/boiling range | : > 100 °C<br>Method: calculated |
| Flash point                 | : > 99 °C                        |
| Evaporation rate            | : not determined                 |
| Flammability                | : Does not sustain combustion.   |

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

Upper explosion limit / Upper  
flammability limit : not determined

Lower explosion limit / Lower  
flammability limit : not determined

Vapor pressure : not determined (20 °C)  
not determined (50 °C)

Relative vapor density : Heavier than air.  
Lighter than air.

Density : 1.27 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : not determined

Partition coefficient: n-  
octanol/water : not applicable for mixtures

Autoignition temperature : not determined

Decomposition temperature : No decomposition if stored and handled as  
prescribed/indicated.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

Viscosity  
Viscosity, kinematic : 6 mm<sup>2</sup>/s ( 23 °C)  
not determined ( 40 °C)

Flow time : < 30 s (23 °C)  
Cross section: 3 mm  
Method: ISO 2431

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-heating substances : The substance or mixture is not classified as self heating.

Metal corrosion rate : Corrosive to metals

**Section 10: Stability and reactivity**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Gives off hydrogen by reaction with metals.

Conditions to avoid : Avoid direct sunlight.  
avoid contact with metals  
Heat, flames and sparks.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

Incompatible materials : Bases  
Metals

Hazardous : No decomposition if stored and applied as directed.  
decomposition products

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**Section 11: Toxicological information****Acute toxicity**

Harmful if swallowed.

**Product:**

Acute oral toxicity : Acute toxicity estimate: 1,122 mg/kg  
Method: Calculation method

**Components:****2-butoxyethanol:**

Acute oral toxicity : LD50 (guinea pig): 1,200 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization****Skin sensitization**

Based on available data, the classification criteria are not met.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

**Respiratory sensitization**

Based on available data, the classification criteria are not met.

**Chronic toxicity****Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

Based on available data, the classification criteria are not met.

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**Section 12: Ecological information****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****2-butoxyethanol:**

Partition coefficient: n- : log Pow: 0.81 (25 °C)  
octanol/water

GLP: no

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**Section 13: Disposal considerations****Disposal methods**

Waste from residues : Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Packaging that is not properly emptied must be disposed of as the unused product.

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**Section 14: Transport information****International Regulations****UNRTDG**

UN number : UN 1805

Proper shipping name : PHOSPHORIC ACID, SOLUTION

Class : 8

Packing group : III

Labels : 8

Environmentally hazardous : no

**IATA-DGR**

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

---

|                                          |                             |
|------------------------------------------|-----------------------------|
| UN/ID No.                                | : UN 1805                   |
| Proper shipping name                     | : PHOSPHORIC ACID, SOLUTION |
| Class                                    | : 8                         |
| Packing group                            | : III                       |
| Labels                                   | : Corrosive                 |
| Packing instruction (cargo aircraft)     | : 856                       |
| Packing instruction (passenger aircraft) | : 852                       |

**IMDG-Code**

|                      |                             |
|----------------------|-----------------------------|
| UN number            | : UN 1805                   |
| Proper shipping name | : PHOSPHORIC ACID, SOLUTION |
| Class                | : 8                         |
| Packing group        | : III                       |
| Labels               | : 8                         |
| EmS Code             | : F-A, S-B                  |
| Marine pollutant     | : no                        |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****NZS 5433**

|           |           |
|-----------|-----------|
| UN number | : UN 1805 |
|-----------|-----------|

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

---

|                      |   |                           |
|----------------------|---|---------------------------|
| Proper shipping name | : | PHOSPHORIC ACID, SOLUTION |
| Class                | : | 8                         |
| Packing group        | : | III                       |
| Labels               | : | 8                         |
| Hazchem Code         | : | 2R                        |
| Marine pollutant     | : | no                        |

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

|          |   |     |
|----------|---|-----|
| ERG Code | : | 154 |
|----------|---|-----|

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**Section 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR002526 Cleaning Products Corrosive Group Standard

**Tolerable Exposure Limits (TEL)**

Not applicable

**Environmental Exposure Limits (EEL)**

Not applicable

**HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue:             |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | 07.03.2025                      |
|         |                |                        | Date of first issue: 07.03.2025 |

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**Section 16: Other information**

Revision Date : 14.04.2025

**Further information**Other information : For multi-pack systems observe material safety data sheets of all components.  
Restricted to professional users.

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ OEL : New Zealand. Workplace Exposure Standards for  
Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted  
average

**RUST KILLER**

|         |                |                        |                                 |
|---------|----------------|------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:            | Date of last issue: 07.03.2025  |
| 2.0     | 14.04.2025     | 0000000000506<br>29459 | Date of first issue: 07.03.2025 |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**RUST KILLER**

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