

**\* SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

- **1.1 Productidentification: Ranex Rustbuster**
- **Companyname: Handelonderneming Weerstand vof**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against. No further relevant information available.**
- **Application of the substance/ the preparation Rustremover**
  
- **1.3 Details of the supplier of the safety data sheet Supplier**
- **Manufacturer/Supplier:**  
Handelonderneming Weerstand vof  
Bolwerk 4  
8715 HN Stavoren  
Nederland  
tel. +31 6 55308639  
e-mail: [info@ranextrustbuster.com](mailto:info@ranextrustbuster.com)  
internet: [www.ranextrustbuster.com](http://www.ranextrustbuster.com)
- **Further information available at:** [info@ranextrustbuster.com](mailto:info@ranextrustbuster.com)
- **1.4 phone number for emergencies**

Nationaal Vergiftigingen Informatie Centrum (UMC Utrecht): +31 30 274 88 88  
Solely intended to inform doctors at accidental poisonings

**SECTION 2: HAZARDS IDENTIFICATION**

- **2.1 Classification of the substance or mixture**
- **Classification in accordance with Regulation (EG) nr. 1272/2008**



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.

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**· 2.2 Label elements**

- **labelling according to Regulation(EG) nr. 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazardpictograms**



GHS05

according 1907/2006/EG, Article 31

date of revision: 30.06.2023 Version 5

Company name: Handelonderneming Weerstand vof

· **Signalword** DANGER

· **Hazard-determining components of labelling:** Phosphoric acid

· **Hazard statement**

H314 Causes severe skin burns and eye damage

· **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF IN CONTACT WITH SKIN (or hair):

Immediately remove any clothing soiled by the product.

Rinse skin with water/shower.

P305+P351+P338 In case of contact with eyes, rinse immediately with water during a few minutes, Remove contact lenses and continue flushing for several additional minutes.

P310 Immediately Call a POISON CENTER or doctor/ physician.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

Does not conform to the criteria established ANNEX XIII to Regulation 1907/2006

The substance meets no criteria for consideration as a PBT substance.

· **zPzB:**

Does not conform to the criteria established ANNEX XIII to Regulation 1907/2006 and the substance meets no criteria for consideration as a zPzB substance.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

· **3.2 Chemical characterisation: Mixture**

· Description of the following substances with harmless additions.

· **Additional data:**

For the wording of the listed risk phrases refer to section 16 "List of relevant R phrases:"

**SECTION 4: FIRST AID MEASURES**

<b>Dangerous ingredients:</b>			
CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid	Skin Corr. 1B, H314	25-50%
CAS: 7720-78-7 EINECS: 231-753-5	ferrous sulphate	Acute Tox. 4, H302; Skin Irrit.2, H315; Eye Irrit.2 H319	3-<10%

· **4.1 Description of first aid measures**

· **General information:** Take affected persons out of danger area and laydown.

· **After inhaling :**

according 1907/2006/EG, Article 31

date of revision: 30.06.2023 Version 5

**Company name: Handelonderneming Weerstand vof**

Supply of fresh air or oxygen; seek medical attention.

If unconscious, place the patient in a stable position on his side and consult a physician.

**· After skin contact:**

Remove contaminated clothing and shoes

Immediately rinse with water

Seek immediate medical advice

**· After eye contact:**

Rinse the open eye with flowing water for several minutes and seek medical advice.

Flush eyes with water for 15 minutes.

Remove contact lenses.

**After swallowing:**

Drink plenty of water and provide fresh air. Call a physician immediately.

Do not induce vomiting; call for medical help immediately.

**· 4.2 Most important symptoms and effects**

No additional relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment**

Obtain specialist or more standard advice with the national poison information centre.

**SECTION 5: FIRE-FIGHTING MEASURES****· 5.1 Extinguisher**

· Suitable extinguisher

Not applicable. The product is non-flammable.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: a powerful waterjet

**· 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Phosphoric acid vapours and Phosphoroxides. Irritating vapours

Run-off from what has been in contact with the product can be corrosive

**· 5.3 Advice for firefighters**

· Protective garments:

Standard protective equipment for firefighters

Protective equipment: Wear self-contained respiratory protective device.

· **Further information:** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.**SECTION 6: MEASURES ON ACCIDENTAL RELEASE OF SUBSTANCE OR MIXTURE****· 6.1 Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment (see chapter 8)

Wear protective garments. Keep unprotected persons away.

Need to ensure adequate ventilation.

**· 6.2 Measures to protect the environment**

Stop leak if possible without risk.

Small quantities can be diluted with plenty of water and washed away.

Do not allow large quantities of it to reach ground water, water bodies or sewage system.

· **6.3 Containment-, cleaning methods, and –material:**

Absorb with liquid-binding material - sand, diatomite, acid binders, sawdust, universal binders

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: HANDLING AND STORAGE**

· **7.1 Precautions for safe handling of the substance of mixture**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the work place.

· **Information about protection against explosions and fires: No special measures required.**

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms:** Acid-resistant flooring.

· **Information for storing in one common facility:**

Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

· **7.3 Specific end use(s): No further relevant information available.**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

· **Additional information on the design of technical systems: No additional information, see item 7**

· **8.1 Controle parameters**

· <b>Materials with critical values that have to be monitored at the workplace.</b>	
<b>7664-38-2 Phosphoric acid</b>	
PuGW	short term value: 2 mg/m <sup>3</sup> long term value: 1 mg/m <sup>3</sup>

· **Additional data:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protection:**

**· General protective and hygienic measures:**

The usual precautionary measures should be adhered to in handling the chemicals.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with skin and eyes

Do not eat, drink or smoke when using the product.

**· Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Respiratory protection devices

Wear self-contained respiratory protective device.

**· Protection of hands:**

Wear protective gloves,

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Choose glove material on the basis of the permeation time, degrees of permeability and breakdown rate.

· **Glove material:** nitrile rubber

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves

· **Eye protection:**



Tightly sealed safety glasses. (EN 166)

· **Body protection**

Wear suitable protective clothing (EN ISO 13688)

Protection against liquid chemicals— (EN 13034-6).

**SECTION 9: PHYSICAL AND CHEMICAL CHARACTERISTIC**

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· <b>General data</b></li> <li>· <b>Appearance:</b></li> <li><b>Shape:</b></li> <li><b>Color:</b></li> <li>· <b>Odour:</b></li> <li>· <b>Odour threshold:</b></li> <li>· <b>The behaviour of the output</b></li> </ul>	<p>Liquid Colorless Odorless No data available (d) Not determined</p>
<ul style="list-style-type: none"> <li>· <b>pH-value at 20°C:</b></li> </ul>	<p>1,5 (1% H3PO4)</p>
<ul style="list-style-type: none"> <li>· <b>Behaviour of the output</b></li> <li><b>Melting:</b></li> <li><b>Boilingpoint:</b></li> </ul>	<p>Not determined &gt;100 °C</p>
<ul style="list-style-type: none"> <li>· <b>Flashpoint:</b></li> </ul>	<p>Not applicable</p>
<ul style="list-style-type: none"> <li>· <b>Inflammability (solid, gaseous):</b></li> </ul>	<p>Not useable</p>
<ul style="list-style-type: none"> <li>· <b>Ignition temperature:</b></li> </ul>	

<ul style="list-style-type: none"> <li>· <b>Decomposition Temperature</b></li> </ul>	<p>Not applicable</p>
<ul style="list-style-type: none"> <li>· <b>Self-ignition</b></li> </ul>	<p>Product is not selfigniting</p>
<ul style="list-style-type: none"> <li>· <b>Danger of explosion:</b></li> <li><b>Lower explosion limit:</b></li> <li><b>Upper explosion limit:</b></li> </ul>	<p>Product is not explosive Not determined Not determined</p>
<ul style="list-style-type: none"> <li>· <b>Vapour pressure 20 °C:</b></li> </ul>	<p>23 hPa</p>
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with water</b></li> </ul>	<p>Fully miscible.</p>

<ul style="list-style-type: none"> <li>· <b>Segregation coefficient (n-octanol/water</b></li> </ul>	<p>Not determined</p>
<ul style="list-style-type: none"> <li>· <b>Viscosity</b></li> <li><b>Dynamic:</b></li> <li><b>Kinematic:</b></li> </ul>	<p>Not determined Not determined</p>

<ul style="list-style-type: none"> <li>· <b>Solvent content:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Organic solvent:</b></li> </ul>	0,00%
<ul style="list-style-type: none"> <li>· <b>VOS</b></li> </ul>	0,00%
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> </ul>	No further relevant information available.

**SECTION 10: STABILITY AND REACTIVITY**

- **10.1 Reactivity:** Can be corrosive on metals.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reaction:** No dangerous reactions known
- **10.4 Conditions to be avoided:** Not any additional relevant information.
- **10.5 Materials to avoid:** alkalis, metal-oxides and metals

Do not store together with reducing agents.

Oxidizing agents, strong alkali's and strong acids, alkali- and alkali earth metals , various plastic materials , light metal (+ alloys).

- **10.6 hazardous decomposition products :**

Dangerous decomposition can be produced out of volatilisation, reaction or oxidation of the substances.

Phosphoroxyde (b.v. P205)

Decomposition products are dependent on temperature conditions, air-supply and the presence of any other substances

Formation of toxic gases is possible during heating or in case of fire.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- **11. Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

<ul style="list-style-type: none"> <li>· <b>Relevant classification LD/LC50-value:</b></li> </ul>		
<p><b>7664-38-2 phosphoric acid</b></p>		
Oral	LD50	2600 mg/kg (Rat)
Dermal	LD50	2740 mg/kg (Rabbit)
Inhalation	LC50 /4h	850 mg/l (Rat) (2hrs)

- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/eye irritation :**  
Causes serious eyedamage.
- **Respiratory organs:** Corrosive and irritant to the respiratory system
- **By ingestion:** Severely irritating mouth, throat and intestinal tract
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Oxicity for reproduction:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.

· <b>STOT-repeated exposure</b>		
<b>7664-38-2 phosphoric acid</b>		
<b>Oral</b>	NOAEL (rep dose tox)	250 mg/kg bw/day (Rat)54 days

Based on available data, the classification criteria are not met

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

**SECTION 12: ECOLOGIC INFORMATION**

· **12.1 Toxicity**

· <b>Aquatic toxicity</b>	
<b>7664-38-2 phosphoric acid</b>	
EC50 (48h)	>100 mg/l (Daphnia Magna) (OECD202)
EC50 (72H) (static)	>100 mg/l (Desmodesmus Subspicatus) (OECD201)

- **12.2 Persistence and degradability:** Not any additional relevant information.

- **12.3 Bioaccumulation:** Not any additional relevant information.

- **12.4 Mobility in soil:** Not any additional relevant information.

· **Additional ecological information**

· **General information:**

Waterobjection 10: May cause long-term adverse effects in the aquatic environment.

Water hazard class 1 (German Regulation) (Self-assessment):

Do not allow undiluted product or large quantities of it to reach groundwater, water bodies or sewage system.

Low pH value causes damages to aquatic organisms. In the dilution of the concentration increases the pH value significant, after use of the product the wastewater in the sewage system, causes a low risk for the waterenvironment.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

Does not meet the specified criteria explained in ANNEX XIII of Regulation 1907/2006 and the substance will therefore be not assesseden as PBT.

· **zPzB:**

Does not meet the specified criteria explained in ANNEX XIII of Regulation 1907/2006 and the substance will therefore be not assesseden as ZPzB.

- **12.6 other harmful effects:** No relevant data available.



**SECTION 13: DISPOSAL CONSIDERATIONS**

- **13.1 waste treatment methods**
- **Recommandation:** Disposal must be made according to official regulations
- **Uncleaned packagings:**
- **Recommandation:** Disposal must be made according to official regulations

**\* SECTION 14: TRANSPORT INFORMATION**

· <b>14.1 VN-nummer</b>	
· <b>ADR,RID,ADN, IMDG, IATA</b>	UN1805
· <b>14.2 The UN proper shipping name from the UN Model Regulations shall be provided</b>	
· <b>ADR/RID/ADN</b> · <b>IMDG, IATA</b>	1805 PHOSPHORIC ACID, SOLUTION, mixture PHOSPORIC ACID, SOLUTION, mixture
· <b>14.3The transport hazard class</b> · <b>ADR,RID,ADN, IMDG, IATA</b> · <b>Class</b> · <b>Label</b>	8 Corrosive substance 8
· <b>14.4 Packing group:</b> · <b>ADR,RID,ADN, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards</b> · <b>Marine pollutant</b>	No
· <b>14.6 Special precautions for user:</b> · <b>Kemler-number:</b> · <b>EMS-nummer:</b> · <b>Segregation groups:</b>	Warning: corrosive substance 80 F-A,S-B Acids
· <b>14.7 Transport inbulk according to Annex II of MARPO and IBC-code</b>	not applicable
· <b>Transport/Additional information:</b> · <b>ADR/RID/ADN</b> · <b>Limited quantity(LQ)</b> · <b>Transportcategory</b> · <b>Tunnelrestrictions</b>	5L 3 E
· <b>VN "Model Regulation":</b>	UN1805, PHOSPORIC ACID, SOLUTION, Mixture, 8, III

**\* SECTION 15: REGULATION**

**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No comment

· <b>SZW-list of carcinogens substances</b> Not one of the components is listed.
· <b>SZW-list of mutagenic substance:</b> Not one of the components is listed.
· <b>NON-exhaustive list lead compounds classified as toxic for reproductive purposes – Fertility:</b> Not one of the components is listed.
· <b>NON-exhaustive list lead compounds classified as toxic for reproductive purposes – Development:</b> Not one of the components is listed.
· <b>NON-exhaustive list lead compounds classified as toxic for reproductive purposes – Breast feeding:</b> Not one of the components is listed.

· **European regulation:** No additional relevant information available

· **National regulation:**

· **Hazardclass v. aqua:** Waterobjection (NL) 10: Remediation A

· **15.2 Chemical safety assessment:** A chemical safety assessment has not been carried out

**SECTION 16: OTHER INFORMATION**

This information corresponds to our current knowledge on the subject. However, this information is no garanty for product features and confirms no contractual agreement.

**· Relevant phrases**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Veroorzaakt huidirritatie.

H319 Causes serious eye irritation.

**· Abbreviations and acronyms**

NOEC: No Observed Effect Concentration

IC50: Inhibition Concentration, 50 percent

EC50: Effect Concentration, 50 percent

BW: Body Weight

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

• \* **Data compared to the previous version are changed**