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**1. Section 1. Identification of the substance/mixture and of the company/undertaking:**

- 1.1. Product identifier: **RUST CONVERTOR - 1 35450 (500 g); 1 35449 (5 L)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:  
Application of the substance / the mixture: Anti-corrosion coating
- 1.3. Details of the supplier of the safety data sheet:  
Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha-5 Stodůlky  
Telephone/Fax: +420 327 596 128, +420 327 596 428  
Information: [info@retech.cz](mailto:info@retech.cz)
- 1.4. Emergency telephone number: RETECH Suchdol 212, Suchdol u Kutné Hory  
Tel. +420 327 596 128 (7.30-16.00 hour)  
Toxicology information number, Na bojišti 1, 128 08 PRAHA 2  
Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Section 2. Hazard identification:**

- 2.1. Classification of the substance or mixture:  
Classification according to Regulation (EC) No 1272/2008 [CLP]:  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:  
Xi Irritant R36/38 Irritating to eyes and skin.

- 2.2. Label elements:  
Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal word: Warning

Hazard statements:  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary statements:  
P102 Keep out of reach of children.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing.  
P501 Dispose of contents/container in accordance with national regulation.

- 2.3. Other hazards:  
Results of PBT and vPvB assessment:  
PBT: Not applicable  
vPvB: Not applicable

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

- 3.2. Mixtures:  
Description of the mixture: Mixture of active agents

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Hazardous ingredients:

CAS: 7664-38-2	Phosphoric acid	< 10 %
EINECS: 231-633-2	C R34 Skin Corr. 1B, H314	

For full text of H-statements and R-phrases: see SECTION 16.

**4. Section 4. First aid measures:**

4.1. Description of first aid measures:

- Take off contaminated clothing.  
Get medical advice/attention if you feel unwell, have product container or label at hand.
- After inhalation: Move the exposed person to fresh air at once.  
In case of unconsciousness place patient stably in side position for transportation.  
Get immediate medical attention.
- After skin contact: Wash with water and soap and rinse thoroughly.  
Eventually treat with skin cream.  
Do not use solvents.  
If skin irritation occurs, get medical advice/attention.
- After eye contact: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Consult a doctor.
- After swallowing: Rinse mouth with plenty of water and drink large amount of water.  
Do not induce vomiting.  
Keep the affected person warm and at rest.  
Immediately call a doctor.

4.2. Most important symptoms and effects, both acute and delayed:

No further relevant information available (see section 2, 11).

4.3. Indication of any immediate medical attention and special treatment needed:

It depends on the exposure route (see above).

**5. Section 5. Fire fighting measures:**

5.1. Extinguishing media:

Suitable extinguishing agents: This material is nonflammable.  
Water haze, carbon dioxide, fire-extinguishing powder, foam.  
Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents:

Water with full jet.

5.2. Special hazards arising from the substance or mixture:

Formation of toxic gases and vapours is possible during heating or in case of fire.  
Inhaling dangerous decomposition products can cause serious health defects.  
Phosphorous oxides (PxOx)

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.  
Cool endangered receptacles with water spray.  
Move containers from fire area if safe to do.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Dispose contaminated extinguishing water and remains after the fire in accordance with the official regulations.

**6. Section 6. Accidental release measures:**

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:  
Follow the instructions given in the sections 7 and 8.  
Do not get in eyes, on skin, or on clothing.  
Do not breathe vapours and spray.  
Keep unprotected persons away.  
Ensure adequate ventilation.  
For emergency responders:  
Wear suitable protective equipment (see section 5).

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- 6.2. Environmental precautions: Stop leak.  
Do not allow to enter sewage system, surface, ground water and soil.  
Inform respective authorities in case of seepage into water course or sewage system.
- 6.3. Methods and material for containment and cleaning up:  
Use bunds or drain covers.  
Absorb with liquid-binding material (sand, universal binders, vapex, perlite, fine gravel).  
Wash with suitable cleaning agent. Do not use solvents.  
Dispose contaminated material as waste according to Section 13.
- 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 disposal information.

**7. Section 7. Handling and storage:**

- 7.1. Precautions for safe handling: Read section 2, 6, 8, 11 before use.  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Do not breathe vapours and spray.  
Follow the instructions given on the label.  
Do not eat, drink or smoke when using this product.  
Wash hands before breaks and at the end of work.  
Take off contaminated clothing.
- Measures to prevent fire: Keep away from heat, open flames and other ignition sources.  
Protect from heat and direct sunlight.
- 7.2. Conditions for safe storage including any incompatibilities:  
Technical measures and storage conditions:  
Store in a cool, dry, well-ventilated place.  
Do not store with bases, metals, carbides, alkali metals, powdered metals (reacts with metals to produce flammable hydrogen gas), chlorine and its compounds.
- Requirements for storage rooms and vessels:  
Store in a cool, dry, well-ventilated place.
- Further information on storage conditions:  
Keep away from heat, open flames and other ignition sources.  
Protect from frost.  
Store away from food.
- 7.3. Specific end use(s): Use of this product is given by the manufacturer in the instructions for use, which are given on the label or in the attached documentation.

**8. Section 8. Exposure controls/personal protection:**

- 8.1. Control parameters:  
Components with limit values that require monitoring at the workplace:

WEL (UK): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
7664-38-2	Phosphoric acid	-	1	-	2	

OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG

CAS	Name of agent	Eight hours		Short-term		Notation
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
7664-38-2	Phosphoric acid	1	-	2	-	

Additional information: The lists that were valid during the compilation were as basis.

- 8.2. Exposure controls:  
Measures to prevent exposure: Store away from foodstuffs, beverages and feed.  
Take off immediately all contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid skin and eye contact.

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Personal protection equipment:	Ensure good ventilation/exhaustion at the workplace.
Breathing equipment:	Not required, but ensure good ventilation/exhaustion at the workplace. In case of inadequate ventilation wear suitable respiratory protection with filter.
Eye protection:	Safety goggles or safety shield
Protection of hands:	Protective gloves Material of gloves: rubber Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Protection of skin:	Rubber apron. Protective suit, shoes.

**9. Section 9. Physical and chemical properties:**

9.1. Information on basic physical and chemical properties:

Form:	Fluid
Colour:	Violet-blue to blue
Odour:	Faint
Odour threshold:	Not determined
Value pH:	Not determined
Melting point/freezing point:	18 °C
Initial boiling point/boiling range:	101.8 °C
Flash point:	Not determined
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not applicable
Explosive properties:	Not determined
Explosive limits:	
– lower:	Not determined
– upper:	Not determined
Vapour pressure at 20°C:	0.0003 mBar
Vapour density at 20 °C:	1/5.68 (air/product)
Density at 20°C:	Not determined
Relative density:	Not determined
Solubility in/miscibility with:	
– water	Fully miscible
Partition coefficient (n-octanol/water):	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	266 °C
Self-igniting:	Not determined
Viscosity:	40000-70000 mPas
Oxidising properties:	Not determined

9.2. Other information: No further relevant information available.

**10. Section 10. Stability and reactivity:**

10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	No decomposition if used according to specifications.
10.3. Possibility of hazardous reactions:	Bases, metals, carbides, alkali metals, powdered metals (reacts with metals to produce flammable hydrogen gas), chlorine and its compounds
10.4. Conditions to avoid:	No further relevant information available.
10.5. Incompatible materials:	See section 10.3.
10.6. Hazardous decomposition products:	Formation of toxic gases and vapours is possible during heating or in case of fire. See section 5.

**11. Section 11. Toxicological information:**

11.1. Information on toxicological effects:  
Acute toxicity:

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LD/LC50 values relevant for classification:

CAS	LD50 Oral, rat	LC50 Inhalative, rat
7664-38-2 Phosphoric acid	1530 mg/kg	> 850 mg/m <sup>3</sup> /4h for aerosols; 2740 mg/kg/4h for gases and vapours
Irritation: Skin:	Irritant to skin and mucous membranes.	
Eyes:	Irritating effect.	
Corrosivity:	Not corrosive.	
Sensitization:	No sensitizing effect known.	
Repeated dose toxicity:	No further relevant information available.	
Carcinogenicity:	No substance meets the criteria for identification as a carcinogen.	
Mutagenicity:	No substance meets the criteria for identification as a mutagen.	
Toxicity for reproduction:	No substance meets the criteria for identification as a teratogen.	
Other information:	Inhalation: May cause irritation to the respiratory system.	

**12. Section 12. Ecological information:**

- 12.1. Toxicity:  
Aquatic toxicity:  
7664-38-2 Phosphoric acid  
LC50 (96h, fish) 10-1000 mg/l
- 12.2. Persistence and degradability: Biodegradable.
- 12.3. Bioaccumulative potential: No further relevant information available.
- 12.4. Mobility in soil: No further relevant information available.
- Additional ecological information:  
General notes: Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
This product is classified as dangerous for the environment.  
Very toxic to aquatic life with long lasting effects.
- 12.5. Results of PBT and vPvB assessment:  
PBT: Not applicable  
vPvB: Not applicable
- 12.6. Other adverse effects: No further relevant information available.

**13. Section 13. Disposal considerations:**

- 13.1. Waste treatment methods: Smaller quantities can be disposed of with household waste.  
Product: Dispose in safe manner in accordance with local/national regulation.  
Uncleaned packagings: Disposal must be made according to official regulations.

**14. Section 14. Transport information:**

- 14.1. UN number:  
ADR, IMDG, IATA Not regulated.
- 14.2. UN proper shipping name:  
ADR -  
IMDG -  
IATA -
- 14.3. Transport hazard class(es):  
ADR -  
IMDG -  
IATA -
- 14.4. Packing group:  
ADR, IMDG, IATA -
- 14.5. Environmental hazards: -
- 14.6. Special precautions for user: -
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable

**15. Section 15. Regulatory information:**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

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## Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended  
Directive 67/548/EEC and Directive 1999/45/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), as amended  
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. Section 16. Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.)

## Advice on training for workers:

All persons, who work with this product, must know and regard the safety notes and the safety instructions.

## Relevant R-phrases and H-statements (Section 3):

R34 Causes burns.

H314 Causes severe skin burns and eye damage.

## Abbreviations and acronyms:

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

RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG International Maritime Code for Dangerous Goods

IATA International Air Transport Association

ICAO International Civil Aviation Organization

GHS Globally Harmonized System of Classification and Labelling of Chemicals

EINECS European Inventory of Existing Commercial Chemical Substances

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

OEL Occupational Exposure Limit

WEL Workplace exposure limits

BMGV Biological monitoring guidance values

STEL Short-term exposure limit

TWA Time-Weighted Average

EC50 Effective concentration, 50 percent

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

DNEL Derived No-Effect Level

PNEC Predicted No-Effect Concentration

LOEC Lowest Observed Effect Concentration

NOEC No Observed Effect Concentration

PBT Persistent Bioaccumulative Toxic

vPvB Very Persistent, Very Bioaccumulative

VOC Volatile Organic Compounds

MAL-Code Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**\*Compared to the last version the data has been changed.**