MEMI®

Tel. +49(0)911-642960

according to 1907/2006/EC, Article 31

Printing date 07.09.2018 Version number 4 Revision: 07.09.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: **Rust Remover Paste**

· Article number: 10824

· 1.2 Relevant identified uses of the substance or mixture and

uses advised against

No further relevant information available.

· Application of the substance / the

Cleaning agent/ Cleaner mixture

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

from:

Laboratory

· 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform. Centre

Medical Toxicology Unit

Avalonley Road London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 Hazard pictograms

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



 Signal word Danger

· Hazard-determining components

of labelling:

phosphoric acid

Alcohols, C13-C15 branched and linear, ethoxylated H314 Causes severe skin burns and eye damage.

· Hazard statements

· Precautionary statements If medical advice is needed, have product container or label P101

at hand.

P102 Keep out of reach of children. Read label before use. P103

P260 Do not breathe mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face P280

protection.

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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 [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

insing.

P310 Immediately call a POISON CENTER/doctor.

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: Not applicable.√PvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
	non-ionic surfactants Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 3, H412	1-5%		
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24	phosphoric acid Met. Corr.1, H290; Skin Corr. 1B, H314 Acute Tox. 4, H302	25-50%		
CAS: 25749-64-8 Reg.nr.: 01-2120065599-40-0000	2-propyn-1-ol, ethoxylated Acute Tox. 2, H330 Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	<1%		

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

non-ionic surfactants

· 4.1 Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

• After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and

delayed Profuse sweating

Gastric or intestinal disorders

· <u>Information for doctor:</u> Symptoms in intoxication with acids:

In case of oral intake symptoms depend on concentration and acidity of incorporated acid, and are corrosive eschar in mouth and throat, vomitting, severe dysphagia, shock and coma. Therapy measures: drink plenty of water. Administer 20 g Magnesia usta in milk oral; no hydrogen carbonate oral; pain relief measures; in indication of acidosis infusion of sodium hydrogencarbonate

solution(5%).

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<5%



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· 4.3 Indication of any immediate medical attention and special

treatment needed

If swallowed, gastric irrigation with added, activated carbon.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

· 5.2 Special hazards arising from

the substance or mixture 5.3 Advice for firefighters

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

• Protective equipment: Mount respiratory protective device.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Ensure adequate ventilation

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for

containment and cleaning up:

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

binders, sawdust). Use neutralising agent.

Dispose 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling

Keep receptacles tightly sealed.

· Information about fire - and

explosion protection:

No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles:

No special requirements.

Information about storage in one

common storage facility:

Do not store together with alkalis (caustic solutions).

· Further information about storage

conditions:

Keep container tightly sealed.

Protect from frost.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about

design of technical facilities: No further data; see item 7.

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7664-38-2 phosphoric acid

WEL Short-term value: 2 mg/m³ Long-term value: 1 mg/m³

· DNELs

7664-38-2 phosphoric acid

Inhalative DNEL (Langzeit-wiederholt) 2.92 mg/m³ Air (ARB) 0.73 mg/m³ Air (BEV)

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eves and skin. Not necessary if room is well-ventilated.

Respiratory protection:

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl rubber, BR Nitrile rubber, NBR

Fluorocarbon rubber (Viton) Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Penetration time of glove material

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

Value for the permeation: Level \leq 6, 480 min

 For the permanent contact gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, Art_No. 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898) Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890)

 As protection from splashes gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733) Dermatril (KCL, Art_No. 740, 741, 742)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

 Not suitable are gloves made of the following materials:

the following materials:

Leather gloves

Strong material gloves

· Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· General Information

· Appearance:

Form: Pasty

Colour: Yellow-brown

· Odour: Weak, characteristic

· pH-value at 20 °C:

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

· Flash point: Not applicable.

· Ignition temperature: >370 °C

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.27 g/cm³

· Solubility in / Miscibility with

water: Fully miscible.

· Viscosity:

Dynamic at 20 °C: 13,000 mPas Not determined.

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Solvent content:
 Organic solvents:
 Water:
 52.9 %

Solids content: 46.3 %

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
 Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions Reacts with alkali and metals.

Reacts with strong oxidising agents.
Reacts with metals forming hydrogen.
No further relevant information available.
No further relevant information available.

10.4 Conditions to avoid
 10.5 Incompatible materials:
 10.6 Hazardous decomposition

products: Phosphorus oxides (e.g. P2O5)

Irritant gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 2,921-3,204 mg/kg (rat)

Inhalative LC50/4 h 63.3 mg/l

7664-38-2 phosphoric acid

 Oral
 LD50
 1,250 mg/kg (rat)

 NOAEL
 ≥410 mg/kg (rat)

 Dermal
 LD50
 2,740 mg/kg (rabbit)

 Inhalative
 LC50/1h
 1.69 mg/l (rat)

· Primary irritant effect:

• Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

· 12.1 Toxicity

٠	ΑQ	uatic	toxicity:	

7664-38-2 phosphoric acid

EC50

270 mg/l (BES)

270 mg/l (bacteria)

EC50/48h >100 mg/l (daphnia magna)

EC50/72h >100 mg/l (Desmodesmus subspicatus)

LC50/96h 138 mg/l (Gambusia affinis)

98-106 mg/l (lem)

3-3.25 mg/l (lepomis macrochirus)

· 12.2 Persistence and

degradability

No further relevant information available.

· 12.3 Bioaccumulative potential

No further relevant information available. No further relevant information available.

· 12.4 Mobility in soil

Additional ecological information:

General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-

dangerous.

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

hazardous for water

· 12.5 Results of PBT and vPvB assessment

· PBT: · vPvB: Not applicable. Not applicable.

· 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

separately collected fractions (except 15 01) 20 01 00

20 01 29* detergents containing hazardous substances

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA UN3260

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<u> </u>					
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• 14.2 UN proper shipping name • ADR	(PHOSPHORIC ACID, 1,4-I	ID, ACIDIC, INORGANIC, N.O.S. BUTYNEDIOL) ACIDIC, INORGANIC, N.O.S.			
· <u>IMDG, IATA</u>	(PHOSPHORIC ACID, 1,4-I				
· 14.3 Transport hazard class(es) · ADR					
· <u>Class</u> · <u>Label</u>	8 (C2) Corrosive substance 8	S.			
· IMDG, IATA					
· <u>Class</u> · <u>Label</u>	8 Corrosive substances.				
· <u>14.4 Packing group</u> · <u>ADR, IMDG, IATA</u>	III				
 14.5 Environmental hazards: Marine pollutant: 	No				
 14.6 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups Stowage Category 	Warning: Corrosive substar 80 F-A,S-B Acids A	ices.			
 14.7 Transport in bulk according to Annex Marpol and the IBC Code 	Not applicable.				
· Transport/Additional information:					
ADR Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per in Maximum net quantity per c				
Transport category Tunnel restriction code	3 E				
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per in Maximum net quantity per c				
· <u>UN "Model Regulation":</u>	UN 3260 CORROSIVE SO (PHOSPHORIC ACID, 1,4-I	DLID, ACIDIC, INORGANIC, N.O.S. BUTYNEDIOL), 8, III			
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SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

VOC EU 0.0 g/l

· 15.2 Chemical safety

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

Department issuing SDS: Laboratory

· Contact: Dieter Zimmermann

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous

version altered. Adaptation in accordance with REACH directive 1907/2006/EC

GB