

Printing date 05.11.2019

Version number 18

1.1 Product identifier		
Trade name:	Rust and Dirt Remover	
Article number: <b>1.2 Relevant identified uses of</b> <b>the substance or mixture and</b>	87841, 87842	
uses advised against Application of the substance / the	No further relevant information available.	
mixture	Cleaning agent/ Cleaner	
1.3 Details of the supplier of the Manufacturer/Supplier:	safety data sheet AKEMI chemisch technische Spezialfabrik Lechstrasse 28 D 90451 Nürnberg	GmbH Tel. +49(0)911-642 Fax. +49(0)911-644 e-mail info@aken
Further information obtainable	Laboratory	
<u>1.4 Emergency telephone</u> number:	Product Safety Department AKEMI chemis Tel. +49(0)911-64296-59 Reachable during the following office hour Monday – Thursday from 07:30 a.m. to 16 Friday from 07:30 a.m. to 13:30 p.m. +44 (171) 635 91 91 National Poison Inform. Centre	S:
	Medical Toxicology Unit Avalonley Road	
SECTION 2: Hazards identificati 2.1 Classification of the substar	London ŚE14 5ER n	
2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve	London ŠE14 5ER n ee or mixture on (EC) No 1272/2008 e skin burns and eye damage.	
2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes serie	London ŠE14 5ER n ee or mixture on (EC) No 1272/2008 e skin burns and eye damage.	
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2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes seric 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008	London ŠE14 5ER n ee or mixture on (EC) No 1272/2008 e skin burns and eye damage. is eye damage.	rding to the CLP regulation.
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2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes seve Eye Dam. 1 H318 Causes seve Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components of labelling:	London ŠE14 5ER n e or mixture on (EC) No 1272/2008 e skin burns and eye damage. Is eye damage. The product is classified and labelled acco GHS05 Danger phosphoric acid Alcohols, C13-C15 branched and linear, et	thoxylated
2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes seve Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components of labelling: Hazard statements	London ŠE14 5ER n e or mixture on (EC) No 1272/2008 e skin burns and eye damage. Is eye damage. The product is classified and labelled acco GHS05 Danger phosphoric acid Alcohols, C13-C15 branched and linear, ei H314 Causes severe skin burns and eye of	thoxylated
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2.1 Classification of the substan Classification according to Regula GHS05 corrosion Skin Corr. 1B H314 Causes seve Eye Dam. 1 H318 Causes seve Eye Dam. 1 H318 Causes seve Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components of labelling: Hazard statements	London ŠE14 5ER n e or mixture on (EC) No 1272/2008 e skin burns and eye damage. Is eye damage. The product is classified and labelled acco GHS05 Danger phosphoric acid Alcohols, C13-C15 branched and linear, ei H314 Causes severe skin burns and eye of P101 If medical advice is ne at hand. P102 Keep out of reach of ch P103 Read label before use. P260 Do not breathe mist/vaj	thoxylated lamage. eded, have product container or l ildren.

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

Trade name:	Rust and	Dirt Remover
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	P303+P361+P3	(Contd. of page 1) 31 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 38 IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.
<ul> <li>2.3 Other hazards</li> </ul>		
<ul> <li>Results of PBT and vPvB and vPvB and vPvB</li> </ul>	assessment	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

#### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

Mixture of substances listed below with nonhazardous additions. · Description:

Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 3, H412	
,	
hosphoric acid Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	25-50%
Propyn-1-ol, ethoxylated Acute Tox. 2, H330 STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	<1%
tergents / Labelling for contents	
	<5%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302 propyn-1-ol, ethoxylated Acute Tox. 2, H330 STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

Immediately remove any clothing soiled by the product.
Supply fresh air.
In case of unconsciousness place patient stably in side position for transportation.
Immediately wash with water and soap and rinse thoroughly.
Rinse opened eye for several minutes under running water. Then consult a doctor.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Gastric or intestinal disorders
Acidosis
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 (Contd. on page 3)

· Storage class:

· 7.3 Specific end use(s)

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2019 Version number 18 Revision: 05.11.2019 Trade name: Rust and Dirt Remover (Contd. of page 2) solution(5%). · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. **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 No further relevant information available. · 5.3 Advice for firefighters Protective equipment: No special measures required. **SECTION 6: Accidental release measures**  6.1 Personal precautions, protective equipment and emergency procedures Particular danger of slipping on leaked/spilled product. Wear protective equipment. Keep unprotected persons away. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. 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 Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up: 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. Ensure good ventilation/exhaustion at the workplace. · 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 Not required. common storage facility: · Further information about storage conditions: Protect from frost.

Keep container tightly sealed.

No further relevant information available.

8 B

(Contd. on page 4)

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

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	Trade name: Rust and Dirt Remover					
			(Contd. of page 3)			
	SECTION	8: Exposure controls/perso	onal protection			
	<ul> <li>Additional</li> </ul>	information about				
			further data; see item 7.			
	· 8.1 Contro	ol parameters				
	Ingredients	s with limit values that require	monitoring at the workplace:			
	7664-38-2	phosphoric acid				
		rt-term value: 2 mg/m <sup>3</sup>				
		g-term value: 1 mg/m <sup>3</sup>				
l	· <u>DNELs</u>					
l		phosphoric acid				
l	Dermal	DNEL (Langzeit-wiederholt)				
	Inhalative	DNEL (Kurzzeit-akut)	2 mg/m³ Air (ARB)			
		DNEL (Langzeit-wiederholt)	1-10.7 mg/m <sup>3</sup> Air (ARB)			
			0.36-4.57 mg/m³ Air (BEV)			
		8 2-propyn-1-ol, ethoxylated				
	Oral	DNEL (Langzeit-wiederholt)	0.2 mg/kg bw/day (BEV)			
	Dermal	DNEL (Langzeit-wiederholt)				
			0.4 mg/kg bw/day (BEV)			
	Inhalative	DNEL (Langzeit-wiederholt)	2.5 mg/m <sup>3</sup> Air (ARB)			
			0.6 mg/m³ Air (BEV)			
	· PNECs					
		8 2-propyn-1-ol, ethoxylated	d			
		issrig) 0.1 mg/l (SW)				
			lists valid during the making were used as basis.			
		sure controls				
		protective equipment: rotective and hygienic				
	measures:	Do	not eat, drink, smoke or sniff while working.			
			skin protection cream for skin protection.			
			an skin thoroughly immediately after handling the product. p away from foodstuffs, beverages and feed.			
			nediately remove all soiled and contaminated clothing			
		Was	sh hands before breaks and at the end of work.			
			not inhale gases / fumes / aerosols.			
	Respirator		id contact with the eyes and skin. ase of brief exposure or low pollution use respiratory filter device. In case of			
	<u></u>		nsive or longer exposure use self-contained respiratory protective device.			
	Protection		ventive skin protection by use of skin-protecting agents is recommended. In use of gloves apply skin-cleaning agents and skin cosmetics.			
		W	Protective gloves			
			The glove material has to be impermeable and resistant to the			
			product/ the substance/ the preparation.			
			Due to missing tests no recommendation to the glove material can be			
			given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation			

times, rates of diffusion and the degradation Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

GB

Printing date 05.11.2019

Version number 18

Trade name: Rust and Dirt Remover		
	(Contd. of page 4)	
	<ul> <li>STOKO EMULSION (http://www.stoko.com)</li> <li>Skin protection recommendation for skin cleaning after product handling:</li> <li>FRAPANTOL (http://www.stoko.com)</li> <li>Skin protection agent recommendation for skin aftercare:</li> <li>STOKO VITAN (http://www.stoko.com)</li> <li>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.</li> <li>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</li> </ul>	
	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).	
<ul> <li>Material of gloves</li> </ul>	Butyl rubber, BR Nitrile rubber, NBR Fluorocarbon rubber (Viton)	
Penetration time of glove material	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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Value for the permeation: Level $\leq$ 6, 480 min	
	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.	
<ul> <li>For the permanent contact gloves</li> </ul>		
made of the following materials are		
<u>suitable:</u>	Butyl rubber, BR Butoject (KCL, Art_No. 897, 898) Nitrile rubber, NBR Camatril (KCL, Art_No. 730, 731, 732, 733) Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890) Chloroprene rubber, CR Camapren (KCL, Art_No. 720, 722, 726)	
<ul> <li>As protection from splashes gloves</li> </ul>		
made of the following materials are		
<u>suitable:</u>	Nitrile rubber, NBR Camatril (KCL, 730, 731, 732, 733) Chloroprene rubber, CR	
<ul> <li>Not suitable are gloves made of the following materials:</li> </ul>	Leather gloves Strong material gloves	
Eye protection:	Tightly sealed goggles	
Body protection:	Protective work clothing (Contd. on page 6)	

GB

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

(Contd. of page 5)

#### Trade name: Rust and Dirt Remover

SECTION 9: Physical and chemical properties		
• 9.1 Information on basic physical and chemical properties		
General Information		
<u>Appearance:</u> Form:	Fluid	
Colour:	Yellow-brown	
· Odour:	Characteristic	
· pH-value at 20 °C:	<1	
<ul> <li><u>Change in condition</u> <u>Melting point/freezing point:</u> <u>Initial boiling point and boiling range:</u></li> </ul>	Undetermined.	
· Flash point:	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
<ul> <li>Vapour pressure at 20 °C:</li> </ul>	23 hPa	
<ul> <li>Density at 20 °C:</li> </ul>	1.24 g/cm <sup>3</sup>	
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not miscible or difficult to mix.	
• <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic at 20 °C:</u>	Not determined. 11 s (DIN 53211/4)	
<u>Solvent content:</u> <u>Organic solvents:</u> Water:	0.0 % 56.7 %	
Solids content: • 9.2 Other information	56.0 % No further relevant information available.	

#### **SECTION 10: Stability and reactivity**

· <u>10.1 Reactivity</u> · 10.2 Chemical stability	No further relevant information available.
<ul> <li>Thermal decomposition / conditions to be avoided:</li> <li>10.3 Possibility of hazardous</li> </ul>	No decomposition if used according to specifications.
reactions	Reacts with alkali and metals.
	Reacts with strong oxidising agents. Reacts with metals forming hydrogen.
10.4 Conditions to avoid	No further relevant information available.
<u>10.5 Incompatible materials:</u> 10.6 Hazardous decomposition	No further relevant information available.
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.

• <u>LD/LC50</u> v	LD/LC50 values relevant for classification:			
ATE (Acu	ATE (Acute Toxicity Estimates)			
Oral	LD50	>2,545-3,132 mg/kg (rat)		
Inhalative	LC50/4 h	6.49 mg/l		

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

#### Trade name: Rust and Dirt Remover

			(Contd. of page 6)		
7664-38-2 phosphoric acid					
Oral	LD50	1,250 mg/kg	1,250 mg/kg (rat)		
	NOAEL	≥410 mg/kg	(rat)		
Dermal	LD50	2,740 mg/kg	(rabbit)		
Inhalative	LC50	850 mg/l (rat			
	LC50/1h	1.69 mg/l (ra	t)		
157627-86	6-6 Alcoho	ls, C13-C15 k	pranched and linear, ethoxylated		
Oral	LD50	>500-2,000 r	ng/kg (rat)		
Dermal	LD50	>2,000 mg/kg	g (rat)		
	LC50/48h	1-10 mg/l (O	ncorhynchus mykiss)		
25749-64-	8 2-propyr	n-1-ol, ethoxy	rlated		
Oral	LD50	>300-2,000 r	ng/kg (rat)		
Dermal	LD50	>2,000 mg/kg (rat)			
Inhalative	LC50/4 h	0.05 mg/l (A1	ſE)		
	LC50/8h	>0.5-2 mg/l (rat)			
Primary irr	itant effect:				
· Skin corros			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.		
<u>CMR effects (carcinogenity, mutager</u>			Based on available data, the classification criteria are not met.		
Germ cell mutagenicity     Carcinogenicity		ty	Based on available data, the classification criteria are not met.		
	Reproductive toxicity		Based on available data, the classification criteria are not met.		
· STOT-sing			Based on available data, the classification criteria are not met.		
· STOT-repe			Based on available data, the classification criteria are not met.		
Aspiration			Based on available data, the classification criteria are not met.		

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

Aquatic toxicity:			
7664-38-2 pl	7664-38-2 phosphoric acid		
EC50	270 mg/l (BES)		
	270 mg/l (bacteria)		
EC50/48h	>100 mg/l (daphnia magna)		
NOELR/72h	100 mg/l (Desmodesmus subspicatus)		
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)		
157627-86-6	Alcohols, C13-C15 branched and linear, ethoxylated		
EC50/48h	1-10 mg/l (daphnia magna)		
EC10	>1,000 mg/l (BES)		
EC50/72h	EC50/72h 1-10 mg/l (Scenedesmus subspicatus)		
25749-64-8 2	25749-64-8 2-propyn-1-ol, ethoxylated		
EC50	>1,000 mg/l (pseudomonas putida)		
NOEC	>1 mg/l (daphnia magna)		
	>1 mg/l (Desmodesmus subspicatus)		
LC50/96h	>100 mg/l (Leuciscus idus)		
	(Contd. on page 8)		

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

### Trade name: Rust and Dirt Remover

12.2 Dara	istance and	(Contd. of page 7)		
• 12.2 Persistence and		No further relevant information available.		
degradability		No further relevant information available.		
• 12.3 Bioaccumulative potential		No further relevant information available.		
<ul> <li>• 12.4 Mobility in soil</li> <li>• Additional ecological information:</li> </ul>				
General n		Do not allow undiluted product or large quantities of it to reach ground water,		
· <u>General notes.</u>		water course or sewage system.		
		Must not reach sewage water or drainage ditch undiluted or unneutralised.		
		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 2 (German Regulation) (Self-assessment): hazardous for		
		water		
	ilts of PBT and vPvB as	ssessment		
· PBT:		Not applicable.		
• <u>vPvB:</u>		Not applicable.		
· <u>12.6 Othe</u>	r adverse effects	No further relevant information available.		
SECTION	13: Disposal consider	ations		
SECTION	15. Disposal consider	allons		
· 13.1 Wast	te treatment methods			
Recommendation		Must not be disposed together with household garbage. Do not allow product to reach sewage system.		
European waste catalogue				
20 00 00 MUNICIPAL WASTES		G (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND		
	INSTITUTIONAL WAS	TES) INCLUDING SEPARATELY COLLECTED FRACTIONS		
20 01 00				
20 01 29* detergents containing ha		azardous substances		
· Uncleaned packaging:				
		Empty contaminated packagings thoroughly. They may be recycled after		
<u>Recommendation:</u>		thorough and proper cleaning.		
		thorough and proper cleaning.		

**SECTION 14: Transport information** 

· 14.1 UN-Number				
· ADR, IMDG, IATA	UN3264			
<ul> <li><u>14.2 UN proper shipping name</u></li> </ul>				
· <u>ADR</u>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.			
	(PHOSPHORIC ACID, 1,4-BUTYNEDIOL)			
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.			
	(PHOSPHORIC ACID, 1,4-BUTYNEDIOL)			
<ul> <li><u>14.3 Transport hazard class(es)</u></li> </ul>				
· <u>ADR</u>				
· <u>Class</u>	8 (C1) Corrosive substances.			
	(Contd. on page 9)			
	GB			

Printing date 05.11.2019

Trade name: Rust and Dirt Remover

Version number 18

Revision: 05.11.2019

	(Contd. of page
· Label	8
· IMDG, IATA	
· <u>Class</u>	8 Corrosive substances.
· <u>Label</u>	8
<ul> <li>14.4 Packing group</li> </ul>	
ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
• Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
• EMS Number:	F-A,S-B
Segregation groups     Stowage Category	Acids A
· Stowage Category	A SW2 Clear of living quarters.
• 14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
<ul> <li>Transport category</li> </ul>	3
Tunnel restriction code	E
· IMDG	
Limited quantities (LQ)	5L
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (PHOSPHORIC ACID, 1,4-BUTYNEDIOL), 8, III

#### **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: VOC EU	Water hazard class 2 (Self-assessment): hazardous for water. 0.0 g/l	
•	15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.	(Contd. on page 10)

GB

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2019

Version number 18

Revision: 05.11.2019

#### Trade name: Rust and Dirt Remover

(Contd. of page 9)

#### **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. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. · Recommended restriction of use refer to Technical Data Sheet (TDS) Department issuing SDS: Laboratory **Dieter Zimmermann** Contact: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de Abbreviations and acronyms: 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) PNEC: Predicted No-Effect Concentration (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 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 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