**AKEMI**<sup>®</sup>

#### Printing date 01/22/2014

Reviewed on 01/22/2014

• Product identifier       Nust Remover Paste         • Ardice name:       10824         • Relevant identified uses of the substance or mixture and uses advised against       No further relevant information available.         • Application of the substance / the mixture       Cleaning agent/Cleaner         • Details of the supplier of the safety data sheet       Cleaning agent/Cleaner         • Manufacturer/Supplier:       ArkENI (chemisch technische Spezialfabrik GmbH       Tel. +49(0)911-642960         • Information department:       Laboratory       Frax. +49(0)911-64296.59         • Information department:       Laboratory       Prave Adv0(0)91-64296.59         • Brazerd(s) identification       Frax. +49(0)911-64296.59       Reachable during the following office hours:         • Classification of the substance or mixture       Monday – Thursday from 07:30 a.m. to 13:30 p.m.       Frax. +49(0)911-64296.59         • Classification of the substance or mixture       • Classification of the substance or mixture       • Classification of the substance or mixture         • Classification of the substance or mixture       • Classification gaticular       • The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU' in the latest valid version.         • Classification system:       The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU' in the latest editio	1 Identification			
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<ul> <li>Relevant identified uses of the substance or mixture and uses advised against</li></ul>			raste	
mixture       Cleaning agent/ Cleaner         • Details of the supplier of the safety data sheet       Manufacturer/Supplier:         • Manufacturer/Supplier:       AKEM I chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642456         • Information department:       Laboratory         • Emergency telephone number:       Laboratory         • Emergency telephone number:       Laboratory         • 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 f3:30 p.m.         Friday from 07:30 a.m. to f3:30 p.m.         Friday from 07:30 a.m. to f3:30 p.m.         Classification of the substance or mixture         Information according to Directive 67/548/EEC or Directive 1999/45/EC         Corrosive         Causes burns.         • Information concerning particular hazards for human and environment:         • Classification according to Directive 67/548/EEC or Directive 1999/45/EC         • Classification system:         • Label elements         • GHS label elements         • Hazard pictograms         • GHS label elements         • Hazard statements         • Hazard statements         • Hazard statements         • Precautionary statements	Relevant identified uses of the substance or mixture and uses advised against		nt information available.	
Details of the supplier of the safety data sheet     Manufacturer/Supplier:     AKEMi chemisch technische Spezialfabrik GmbH     Tel. +49(0)911-642960     Fax. +49(0)911-644456     D 90451 Nümberg     Laboratory     Emergency telephone number:     Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH     Tel. +49(0)911-644456     D 90451 Nümberg     Laboratory     Emergency telephone number:     Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH     Tel. +49(0)911-64496     e-mail info@akemi.de     Laboratory     Casachable 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.     Classification of the substance or mixture     Office of office of office office office office office of office office office office of office office of office office office office office office office of office office of office offic		Cleaning agent/	Cleaner	
• Manufacturer/Supplier:       AKEMI chemisch technische Spezialfabrik GmbH       Tel. +49(0)911-64286         • Information department:       Echstrasse 28       Fax. +49(0)911-64286         • Information department:       Laboratory       Fax. +49(0)911-64286         • Emergency telephone number:       Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH         Tel. +49(0)911-64296-59       Baachable during the following office hours:         Monday – Thursday from 07:30 a.m. to 16:30 p.m.       Friday from 07:30 a.m. to 16:30 p.m.         • Classification of the substance or mixture       Stin Corr. 1B H314 Causes severe skin burns and eye damage.         • Classification according to Directive 67/548/EEC or Directive 1999/45/EC       Stin Corr. 1B H314 Causes severe skin burns and eye damage.         • Classification according to Directive 67/548/EEC or Directive 1999/45/EC       Stin Corr. 1B H314 Causes severe skin burns and eye damage.         • Classification according to Directive 67/548/EEC or Directive 1999/45/EC       Stin Corr. 1B H314 Causes severe skin burns and eye damage.         • Classification system:       The product has to be labelled due to the calculation procedure of the "General Classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.         • Label elements       GH505         • GH5 label elements       The product is classified and labeled according to the Globally Harmonized System (GHS).     <			Cleaner	
• 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 16:30 p.m.         Friday from 07:30 a.m. to 13:30 p.m.       Friday from 07:30 a.m. to 13:30 p.m.         Classification of the substance or mixture       Image: Comparison of the substance or mixture         Image: Corrosive       GHS05 Corrosion         Skin Corr. 1B       H314         Causes burns.       Information concerning particular hazards for human and environment:         Information concerning particular bazards for human and environment:       The product has to be labelled due to the calculation procedure of the "General Classification system:         • Label elements       GHS05         • GHS label elements       The product is classified and labeled according to the Globally Harmonized System (GHS).         • Hazard pictograms       Product is classified and labeled according to the Globally Harmonized System (GHS).         • Hazard pictograms       phosphoric acid H314 Causes severe skin burns and eye damage.         • Precautionary statements       Phosphoric acid H314 Causes severe skin burns and eye damage.         • Precautionary statements       Phosphoric acid H314 Causes severe skin burns and eye damage.         • Precautionary statements       Phosphoric acid	Manufacturer/Supplier:	AKEMI chemisch Lechstrasse 28		Fax. +49(0)911-644456
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P260 Do not breathe vapours. (Contd. on page 2)				
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### Safety Data Sheet

acc. to OSHA HCS

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Trade name: Rust Remover Paste		
		(Contd. of page 1)
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P3	53 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.
<ul> <li>Classification system:</li> </ul>		-
• NFPA ratings (scale 0 - 4)	<b>Fir</b>	alth = 3 e = 0 activity = 0
· <u>HMIS-ratings (scale 0 - 4)</u>	FIRE 0 Fi	ealth = 3 ire = 0 eactivity = 0
<ul> <li>Other hazards</li> <li>Results of PBT and vPvB assess</li> </ul>	ment	
• PBT:	Not applicable.	
· vPvB:	Not applicable.	

#### 3 Composition/information on ingredients

#### <u>Chemical characterization: Mixtures</u>

• Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:			
	non-ionic surfactants	Xn R22; 🗙 Xi R41 🔗 Eye Dam. 1, H318	1-5%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6	phosphoric acid	C R34 Skin Corr. 1B, H314	25-50%
Additional information:	For the wording of the listed risk phr	ases refer to section 16.	

#### 4 First-aid measures

#### · 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.
<ul> <li>After swallowing:</li> </ul>	Drink copious amounts of water and provide fresh air. Immediately call a doctor.
<ul> <li>Information for doctor:</li> </ul>	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%).
	(Contd. on page 3)
	USA –

Printing date 01/22/2014

Reviewed on 01/22/2014

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Trade name: Rust Remover Paste	
<ul> <li>Most important symptoms and</li> </ul>	(Contd. of page 2)
effects, both acute and delayed	Profuse sweating
<u> </u>	Gastric or intestinal disorders
<ul> <li>Indication of any immediate</li> </ul>	
medical attention and special	
treatment needed	If swallowed, gastric irrigation with added, activated carbon.
5 Fire-fighting measures	
· Extinguishing media	
Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or
	alcohol resistant foam.
Special hazards arising from the	
substance or mixture	No further relevant information available.
Advice for firefighters     Protective equipment:	No special measures required.
	No special measures required.
6 Appidental valance managuran	
6 Accidental release measures	
<ul> <li>Personal precautions, protective</li> </ul>	
equipment and emergency	
procedures	Wear protective equipment. Keep unprotected persons away.
	Particular danger of slipping on leaked/spilled product.
<ul> <li>Environmental precautions:</li> </ul>	Inform respective authorities in case of seepage into water course or sewage
	system. Do not allow to enter sewers/ surface or ground water.
<ul> <li>Methods and material for</li> </ul>	Do not allow to enter sewers/ surface of ground water.
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal
<b>v</b> .	binders, sawdust).
	Use neutralizing agent.
	Dispose contaminated material as waste according to item 13.
· Reference to other sections	Ensure adequate ventilation. See Section 7 for information on safe handling.
· Reference to other sections	See Section 7 for information on personal protection equipment.
	See Section 13 for disposal information.
7 Handling and storage	
• <u>Handling:</u>	
<ul> <li>Precautions for safe handling</li> <li>Information about protection</li> </ul>	Keep receptacles tightly sealed.
against explosions and fires:	No special measures required.
Conditions for safe storage, inclusion Storage:	uding any incompatibilities
<ul> <li>Storage:</li> <li>Requirements to be met by</li> </ul>	
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 receptacle tightly sealed.
Storage class:	Protect from frost. 8 B
· Specific end use(s)	No further relevant information available.
	(Contd. on page 4)
	USA

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rade name: Rust Remover Paste		
	(Contd. of page	
Exposure controls/personal p	rotection	
Additional information about		
design of technical systems:	No further data; see item 7.	
Control parameters		
	at require monitoring at the workplace:	
7664-38-2 phosphoric acid		
PEL Long-term value: 1 mg/m <sup>3</sup>		
REL Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>		
TLV Short-term value: 3 mg/m <sup>3</sup>		
Long-term value: 1 mg/m <sup>3</sup>		
Additional information:	The lists that were valid during the creation were used as basis.	
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 eyes and skin.	
Breathing equipment:	Not required.	
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.	
	Akemi skin protection agent recommendation for preventive skin shelter with	
	use of protective gloves:	
	STOKODERM (http://www.stoko.com)	
	Akemi skin protection agent recommendation for preventive skin shelter application and combination of protective gloves:	
	STOKO EMULSION (http://www.stoko.com)	
	Akemi skin protection recommendation for skin cleaning after product handling	
	FRAPANTOL (http://www.stoko.com)	
	Akemi 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 t	
	directive 89/686/EC and the directive derived decree EN374, respectively, e	
	the above listed protection glove type. The mentioned permeation times da	
	were generated and verified with material samples of the recommend	
	protection glove type in the scope of laboratory anylyses of the company K0 GmbH in compliance with EN374.	
	This recommendation refers exclusively to the material safety data she	
	referenced product delivered by Akemi and the indicated field of application.	
	case of product dilution or in case of mixture with different substances	
	chemicals, and in condition of EN374 deviation the producer of CE-approv	
	protection gloves must be contacted for detailed information (e.g., KCL Gmb Germany, 36124 Eichenzell, internet: http://www.kcl.de).	
	Protective gloves	
	The glove material has to be impermeable and resistant to t	
	product/ the substance/ the preparation.	
	Selection of the glove material on consideration of the penetrati	
Material of gloves	times, rates of diffusion and the degradation Butyl rubber, BR	
	Nitrile rubber, NBR	
	(Contd on page	

Printing date 01/22/2014

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Trade name: Rust Remover Paste	
	(Contd. of page 4)
	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.
<ul> <li>Penetration time of glove material</li> </ul>	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
<ul> <li>For the permanent contact gloves made of the following materials are</li> </ul>	
suitable:	Nitrile rubber, NBR
Sunable.	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)
<ul> <li>Not suitable are gloves made of</li> </ul>	
the following materials:	Leather gloves
	Strong gloves
Eye protection:	
	Tightly sealed goggles
Body protection:	Protective work clothing

#### 9 Physical and chemical properties

<ul> <li>Information on basic physical at General Information         <ul> <li>Appearance:</li></ul></li></ul>	nd chemical properties Pasty Yellow-brown Weak, characteristic
· pH-value at 20 °C (68 °F):	< 1
<u>Change in condition</u> <u>Melting point/Melting range:</u> <u>Boiling point/Boiling range:</u>	Undetermined. 100 °C (212 °F)
· Flash point:	Not applicable.
<ul> <li>Ignition temperature:</li> </ul>	370 °C (698 °F)
<ul> <li>Auto igniting:</li> </ul>	Product is not selfigniting.
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
Density at 20 °C (68 °F):	1.27 g/cm <sup>3</sup> (10.598 lbs/gal)
<ul> <li>Specific gravity at 20 °C (68 °F):</li> </ul>	1.27 g/cm³ (10.598 lbs/gal)
	(Contd. on page 6)

Printing date 01/22/2014

Reviewed on 01/22/2014

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		(Contd. of pa
Solubility in / Miscibility with		
Water:	Fully miscible.	
Viscosity:		
Dynamic at 20 °C (68 °F):	13000 mPas	
Solvent content:		
Organic solvents:	0.0 %	
Water:	52.9 %	
Solids content:	46.3 %	
Other information	No further relevant information available.	

#### 10 Stability and reactivity

<ul> <li><u>Reactivity</u></li> <li>Chemical stability</li> </ul>	
Thermal decomposition /	
conditions to be avoided: • Possibility of hazardous	No decomposition if used according to specifications.
reactions	Reacts with alkali and metals.
	Reacts with strong oxidizing agents.
· Conditions to avoid	Reacts with metals forming hydrogen. No further relevant information available.
Incompatible materials:	No further relevant information available.
<ul> <li>Hazardous decomposition products:</li> </ul>	Phosphorus oxides (e.g. P2O5)
	Irritant gases/vapors

#### **11 Toxicological information**

<ul> <li>Information</li> <li>Acute toxic</li> </ul>		icological effects	
• LD/LC50 \	· LD/LC50 values that are relevant for classification:		
7664-38-2	phospho	ric acid	
Oral	LD50	1530 mg/kg (rat)	
Dermal	LD50	2740 mg/kg (rabbit)	
Inhalative	LC50/1h	1.69 mg/l (rat)	
Inhalative       LC50/1h       1.69 mg/l (rat)         •       Primary irritant effect:       •         • on the skin:       Caustic effect on skin and mucous membranes.         • on the eye:       Strong caustic effect.         • Sensitization:       No sensitizing effects known.         • Additional toxicological information:       Corrosive         Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.         The product shows the following dangers according to internally approved calculation methods for preparations:			
Carcinogenic categories			
<b>`</b>	IARC (International Agency for Research on Cancer)		
7631-86-9	silicon d	oxide, chemically prepared 3	
		(Contd. on page 7)	

Printing date 01/22/2014

Reviewed on 01/22/2014

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Trade name: Rust Remover Paste	
	(Contd. of page 6)
<ul> <li>NTP (National Toxicology Program</li> </ul>	<u>n)</u>
None of the ingredients is listed.	
12 Ecological information	
· <u>Toxicity</u>	
<ul> <li>Aquatic toxicity:</li> </ul>	
7664-38-2 phosphoric acid	
EC50 270 mg/l (BES)	
270 mg/l (bacteria)	
LC50/96h 138 mg/l (Gambusia a	ffinis)
Persistence and degradability	No further relevant information available.
· Behavior in environmental syst	ems:
<ul> <li>Bioaccumulative potential</li> </ul>	No further relevant information available.
• Mobility in soil	No further relevant information available.
• Additional ecological information	
General notes:	Must not reach bodies of water or drainage ditch undiluted or unneutralized. 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.
· Results of PBT and vPvB asses	Water hazard class 1 (Self-assessment): slightly hazardous for water
· PBT:	Not applicable.
· vPvB:	Not applicable.
· Other adverse effects	No further relevant information available.
13 Disposal considerations	
· Waste treatment methods	
Recommendation:	Must not be disposed of together with household garbage. Do not allow product
	to reach sewage system.
<ul> <li>Uncleaned packagings:</li> </ul>	
<ul> <li>Recommendation:</li> </ul>	Disposal must be made according to official regulations.
	Empty contaminated packagings thoroughly. They can be recycled after
	thorough and proper cleaning.
14 Transport information	
· UN-Number	
· DOT, ADR, IMDG, IATA	UN3260
· UN proper shipping name	
· DOT	Corrosive solid, acidic, inorganic, n.o.s. (Phosphoric acid, 1,4-
	Butynediol)
· <u>ADR</u>	3260 Corrosive solid, acidic, inorganic, n.o.s. (Phosphoric acid, 1,4-
	Butynediol)
· <u>IMDG, IATA</u>	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC
	ACID, 1,4-BUTYNEDIOL)

(Contd. on page 8)

USA -

### Safety Data Sheet

acc. to OSHA HCS

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Trade name: Rust Remover Paste			
		(Contd. of page 7)	
· Transport hazard class(es)			
· DOT			
CORCOSIVE 3			
· Class	8 Corrosive substances.		
· <u>Label</u>	8		
· <u>ADR</u>			
and a state of the			
· <u>Class</u>	8 (C2) Corrosive substances		
· <u>Label</u>	8		
- IMDG, IATA			
· Class	8 Corrosive substances.		
· Label	8		
· <u>Packing group</u> · <u>DOT, ADR, IMDG, IATA</u>	III		
· Environmental hazards:			
Marine pollutant:	No		
Special precautions for user	Warning: Corrosive substances		
· Danger code (Kemler):	80		
• EMS Number:	F-A,S-B Acids		
Segregation groups			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Mot applicable.		
· UN "Model Regulation":	UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Pl 1,4-Butynediol), 8, III	hosphoric acid,	
15 Regulatory information			
<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> </ul>			

### Sara Section 355 (extremely hazardous substances): None of the ingredient is listed. Section 313 (Specific toxic chemical listings): 7664-38-2 phosphoric acid TSCA (Toxic Substances Control Act): 7664-38-2 phosphoric acid TSCA (Toxic Substances Control Act): 7664-38-2 phosphoric acid 7631-86-9 silicon dioxide, chemically prepared 7732-18-5 water, distilled, conductivity or of similarpurity



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<ul> <li>Hazard pictograms</li> <li>Hazard pictograms</li> <li>System (GHS).</li> <li>GHS05</li> <li>Signal word</li> <li>Hazard-determining components of labeling:</li> <li>Hazard statements</li> <li>Precautionary statements</li> <li>Precautionary statements</li> <li>P101</li> <li>If me at ha</li> <li>P102</li> <li>Keep P103</li> <li>Read P260</li> <li>Do no</li> <li>P280</li> <li>Wear prote</li> <li>P303+P361+P353 IF O</li> <li>Conta</li> <li>P304+P312</li> <li>F IN you feed</li> </ul>	
• Chemicals known to cause cancer:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         • Cancerogenity categories         • EPA (Environmental Protection Agency)         None of the ingredients is listed.         • TLV (Threshold Limit Value established by ACGIH)         None of the ingredients is listed.         • MAK (German Maximum Workplace Concentration)         None of the ingredients is listed.         • NIOSH-Ca (National Institute for Occupational Safety and He         None of the ingredients is listed.         • OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients is listed.         • GHS label elements         • Hazard pictograms         • Hazard determining components         of labeling:         • Hazard statements         • Precautionary statements         • Pio2         • Pao3         • Pao4         • Pao4         • Pao4         • Pao4	(Contd. of page 8)
None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         • Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         • Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         • Cancerogenity categories         • EPA (Environmental Protection Agency)         None of the ingredients is listed.         • TLV (Threshold Limit Value established by ACGIH)         None of the ingredients is listed.         • MAK (German Maximum Workplace Concentration)         None of the ingredients is listed.         • NIOSH-Ca (National Institute for Occupational Safety and He         None of the ingredients is listed.         • OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients is listed.         • GHS label elements         • Hazard pictograms         • Hazard determining components of labeling:         • Precautionary statements         • Pro2         • Pro2         • Pro2         • Paso Wear         • Pasot+P361+P353 IF O         • C	
<ul> <li>Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.</li> <li>Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.</li> <li>Chemicals known to cause developmental toxicity: None of the ingredients is listed.</li> <li>Chemicals known to cause developmental toxicity: None of the ingredients is listed.</li> <li>Cancerogenity categories</li> <li>EPA (Environmental Protection Agency) None of the ingredients is listed.</li> <li>TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.</li> <li>MAK (German Maximum Workplace Concentration) None of the ingredients is listed.</li> <li>MOSH-Ca (National Institute for Occupational Safety and He None of the ingredients is listed.</li> <li>OSHA-Ca (Occupational Safety &amp; Health Administration) None of the ingredients is listed.</li> <li>OSHA-Ca (Occupational Safety &amp; Health Administration) None of the ingredients is listed.</li> <li>GHS label elements of labeling: Hazard pictograms</li> <li>Hazard statements Precautionary statements</li> <li>Precautionary statements</li> <li>Pro2 Keep P103 Read P260 Do m P280 Wear prote P303+P361+P353 IF O contat P304+P312 IF IN you fi</li> </ul>	
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<ul> <li>Chemicals known to cause reproductive toxicity for males:         <ul> <li>None of the ingredients is listed.</li> <li>Chemicals known to cause developmental toxicity:             <ul> <li>None of the ingredients is listed.</li> <li>Cancerogenity categories</li> <li>EPA (Environmental Protection Agency)</li> <li>None of the ingredients is listed.</li> <li>TLV (Threshold Limit Value established by ACGIH)</li> <li>None of the ingredients is listed.</li> <li>MAK (German Maximum Workplace Concentration)</li> <li>None of the ingredients is listed.</li> <li>NIOSH-Ca (National Institute for Occupational Safety and H</li></ul></li></ul></li></ul>	· 
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<ul> <li><u>Hazard pictograms</u></li> <li><u>Hazard pictograms</u></li> <li><u>Signal word</u></li> <li><u>Hazard-determining components of labeling:</u></li> <li><u>Hazard statements</u></li> <li><u>Precautionary statements</u></li> <li><u>Precautionary statements</u></li> <li><u>P101</u></li> <li>If me at ha</li> <li>P102</li> <li>Keep P103</li> <li>Read P260</li> <li>Do no P280</li> <li>Wear prote</li> <li>P303+P361+P353 IF O conta</li> <li>P304+P312</li> <li>IF IN you feed</li> </ul>	ed and labeled according to the Globally Harmonized
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	<ul> <li>p out of reach of children.</li> <li>d label before use.</li> <li>not breathe vapours.</li> <li>ar protective gloves/protective clothing/eye protection/face ection.</li> <li>DN SKIN (or hair): Remove/Take off immediately all aminated clothing. Rinse skin with water/shower.</li> <li>NHALED: Call a POISON CENTER or doctor/physician if feel unwell.</li> <li>N EYES: Rinse cautiously with water for several minutes.</li> <li>nove contact lenses, if present and easy to do. Continue</li> </ul>
P301+P312 IF S physi P405 Store P501 Disp	BWALLOWED: Call a POISON CENTER or doctor/ sician if you feel unwell. e locked up. bose of contents/container in accordance with local/ pnal/national/international regulations. (Contd. on page 10)

Printing date 01/22/2014

Reviewed on 01/22/2014

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USA

Trade name: Rust Remover Paste	
	(Contd. of page 9)
National regulations:	
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
· VOC USA	0.0 g/l
· Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
16 Other information	
product features and shall not esta	present knowledge. However, this shall not constitute a guarantee for any specific ablish a legally valid contractual relationship.
Department issuing MSDS:     Contact:	Laboratory Dieter Zimmermann
Date of preparation / last revision	01/22/2014 / -
<u>Abbreviations and acronyms:</u>	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 Organization
	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
	DOT: US Department of Transportation IATA: International Air Transport Association
	ACGIH: American Conference of Governmental Industrial Hygienists
	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)
	NFPA: National Fire Protection Association (USA)
	HMIS: Hazardous Materials Identification System (USA)
	LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent