

Trade name: ROCAL Acid Plus

Product no.: 61105, 61106, 1500000914

Current version : 1.1.0, issued: 01.07.2019

Replaced version: 1.0.0, issued: 08.03.2019

Region: GB

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

1.1 Product identifier

Trade name

ROCAL Acid Plus

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Descaler

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

ROTHENBERGER Werkzeuge GmbH
Industriestraße 7
65779 Kelkheim

Telephone no. +49 (0) 61 95 / 800 - 1
Fax no. +49 (0) 6195 / 800 - 3500
e-mail info@rothenberger.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye Dam. 1; H318
Skin Corr. 1A; H314
STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

hydrochloric acid

Hazard statement(s)

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

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Precautionary statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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 rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	hydrochloric acid			
	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27	Skin Corr. 1B; H314 STOT SE 3; H335 Met. Corr. 1; H290	>= 25.00 - < 50.00	%-b.w.
2	phosphoric acid			
	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24	Skin Corr. 1B; H314	>= 5.00 - < 10.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Met. Corr. 1; H290: C >= 0.1% Skin Irrit. 2; H315: C >= 1% Eye Dam. 1; H318: C >= 1% STOT SE 3; H335: C >= 10% Skin Corr. 1B; H314: C >= 10% Skin Corr. 1A; H314: C >= 25%	-	-
2	B	Skin Irrit. 2; H315: C >= 10% Eye Irrit. 2; H319: C >= 10% Skin Corr. 1B; H314: C >= 25%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

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If the patient is likely to become unconscious, place and transport in stable sideways position. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Seek medical advice immediately.

After inhalation

Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

After skin contact

Wash immediately with plenty of water for several minutes. Seek medical attention.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Effects

Risk of stomach perforation

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings. Carbon dioxide; Extinguishing powder; Foam; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Hydrogen chloride (HCl); When heating or in case of fire formation of toxic gases.

5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep people away and stay on the upwind side.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, kieselguhr, acid binder, universal binder, sawdust). Clean contaminated surfaces thoroughly.

6.4 Reference to other sections

Information regarding waste disposal, see chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

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Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art. Provide good ventilation at the work area (local exhaust ventilation, if necessary). Open and handle container with care.

General protective and hygiene measures

Have emergency shower available. Provide eye wash fountain in work area. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Keep away from ignition sources and provide for good ventilation.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Keep container hermetically closed in a dry, cool and well-ventilated place.

Incompatible products

Do not store together with foodstuffs. Substances to be avoided, pls. See chapter 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
	2000/39/EC		
	Hydrogen chloride		
	WEL short-term (15 min reference period)	15	mg/m ³ 10 ppm
	WEL long-term (8-hr TWA reference period)	8	mg/m ³ 5 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Hydrogen Chloride gas and aerosol mists		
	WEL short-term (15 min reference period)	8	mg/m ³ 5 ppm
	WEL long-term (8-hr TWA reference period)	2	mg/m ³ 1 ppm
2	phosphoric acid	7664-38-2	231-633-2
	List of approved workplace exposure limits (WELs) / EH40		
	Orthophosphoric acid		
	WEL short-term (15 min reference period)	2	mg/m ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³
	2000/39/EC		
	Orthophosphoric acid		
	WEL short-term (15 min reference period)	2	mg/m ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	hydrochloric acid			7647-01-0 231-595-7
	inhalative	Short term (acute)	local	15 mg/m ³
	inhalative	Long term (chronic)	local	8 mg/m ³
2	phosphoric acid			7664-38-2 231-633-2
	inhalative	Long term (chronic)	local	1 mg/m ³
	inhalative	Short term (acute)		2 mg/m ³

DNEL value (consumer)

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No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	phosphoric acid			7664-38-2 231-633-2
	inhalative	Long term (chronic)	local	0.73 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	hydrochloric acid		7647-01-0 231-595-7
	water	fresh water	0.036 mg/L
	water	marine water	0.036 mg/L
	water	Aqua intermittent	0.045 mg/L
	sewage treatment plant	-	0.036 mg/L

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour	
liquid	
red	
Odour	
pungent	
Odour threshold	
No data available	
pH value	
Value	< 1
Source	supplier
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	

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No data available

Flash point

No data available

Auto-ignition temperature

No data available

Oxidising properties

No data available

Explosive properties

No data available

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

Value 1.15 kg/l

Source supplier

Solubility in water

Comments soluble

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

Solvent content

Value 0.06 - 0.69 %

Solids content

Value 5.16 %

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

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10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

Oxidizing agents; Alkalis; Metals; Aldehydes; Sulphides; Peroxides; organic materials

10.6 Hazardous decomposition products

Corrosive gases/vapours

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
LD50		appr. 2600	mg/kg bodyweight
Species		rat	
Method		OECD 423	
Source		ECHA	

Acute dermal toxicity			
No data available			

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Species with reference to		rabbit	
Method		37% HCl	
Source		OECD 404	
Evaluation		ECHA	
		corrosive	
2	phosphoric acid	7664-38-2	231-633-2
Species		rabbit	
Source		ECHA	
Evaluation		strongly corrosive	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Species with reference to		rabbit	
Method		10% HCl	
Source		OECD 405	
Evaluation		ECHA	
		Irreversible effects on the eye	
2	phosphoric acid	7664-38-2	231-633-2
Species		rabbit	
Source		ECHA	
Evaluation		strongly corrosive	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Route of exposure		Skin	
Species with reference to		guinea pig	
Method		98% HCl	
Source		OECD 406	
		ECHA	

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Evaluation	non-sensitizing
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Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	phosphoric acid	7664-38-2	231-633-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	phosphoric acid	7664-38-2	231-633-2
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
Route of exposure		inhalational	
Species		rat	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
LC50		3.25 - 3.5 mg/l	
Duration of exposure		96 h	
Species with reference to		Lepomis macrochirus	
Source		100% HCl ECHA	

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
EC50		4.92 mg/l	
Duration of exposure		48 h	
Species with reference to		Daphnia magna	
Method		36% HCl OECD 202	
Source		ECHA	
2	phosphoric acid	7664-38-2	231-633-2
EC50		> 100 mg/l	
Duration of exposure		48 h	
Species		Daphnia magna	
Method		OECD 202	

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Source	ECHA
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Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
EC50		4.7	mg/l
Duration of exposure		72	h
Species with reference to Method	Chlorella vulgaris 36% HCl OECD 201		
Source	ECHA		
2	phosphoric acid	7664-38-2	231-633-2
EC50	>	100	mg/l
Duration of exposure		72	h
Species with reference to Method	Desmodesmus subspicatus OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
EC50		5	mg/l
Duration of exposure		3	h
Species with reference to Method	activated sludge 36% HCl OECD 209		
Source	ECHA		

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

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14.1 Transport ADR/RID/ADN

Class	8
Classification code	C1
Packing group	II
Hazard identification no.	80
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	hydrochloric acid
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	hydrochloric acid
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Technical name	hydrochloric acid
Label	8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

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VOC content	0.69	g/l
VOC-value	0.06	%

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H290 May be corrosive to metals.
H318 Causes serious eye damage.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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