



Chemipro Acid

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

1.1 Product identifier

Product name : Chemipro Acid
 Product code : 004.020.4 – 004.021.2
 Product use : Cleaner
Product is for professional use only

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

Identified uses
Food process cleaner. Cleaning In Place (CIP) process.
Uses advised against
None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Distributor / Importer : Brouwland b.v.b.a.
 Korpelsesteenweg 86
 B-3581 Beverlo
 Belgium
 Tel +32 (0) 11 40 14 08

1.4 Emergency telephone number

National advisory body / Poison Centre

Telephone number : +32 (0) 70 24 52 45 (Antigifcentrum/Centre Antipoison)
 [Belgian National Poison Information Centre]

Manufacturer / Distributor / Importer

Telephone number : 013 670 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: : Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : C; R35

The classification of this product is based only on its extreme pH value (in accordance with European legislation).

Human health hazards : Causes severe burns.

See Section 16 for the full text of the R phrases or H statements declared above

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms(s) :



Hazard statement(s): : Corrosive

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SECTION 2: Hazards identification

Risk phrases : R35- Causes severe burns.
Safety advice : S2- Keep out of the reach of children.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
 S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

2.3 Other hazards

Other hazards which do not result in classification : Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/ingredient name	Identifiers	%	67/548/EEC	Classification	Type
				Regulation (EC) No 1272/2008 [CLP]	
Citric acid	EC: 201-069-1 CAS: 5949-29-1	10-20	Xi; R36	Eye Irrit. 2, H319	[1]
L-(+)-lactic acid	EC: 200-018-0 CAS: 50-21-5	5-10	Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
Alkylsulphonic acid	REACH #: 01-2119490234-40 EC: 287-494-3 CAS: 85536-14-7	3-5	Xn; R22 C; R34 See Section 16 for the full text of the R-phrases declared above	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 See Section 16 for the full text of the S-phrases declared above	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require specification in this Section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.

**SECTION 4: First aid measures**

- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

- Eye contact** : Severely corrosive to the eyes. Causes severe burns.
- Inhalation** : May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
- Skin contact** : Severely corrosive to the skin. Causes severe burns.
- Ingestion** : May cause burns to mouth, throat and stomach.

Signs/symptoms of overexposure

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:

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respiratory tract irritation
coughing

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact a doctor, the Nationaal Vergiftigingen Informatie Centrum (NL) [Dutch National Poison Information Centre] or the Anti-gifcentrum (BE) [Belgian National Poison Centre] immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for fire-fighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate



ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

Small spill : Dilute with copious amounts of water. Absorb with an inert material and place in an appropriate waste-disposal container.

Large spill : Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth, and place in container for disposal according to local regulations (see Section 13). The spilled/leaked material can be neutralised with sodium carbonate, sodium bicarbonate or sodium hydroxide.

6.4 Reference to other Sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this Section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



7.2 Conditions for safe storage, including any incompatibilities : Store between the following temperatures: 0 to 40°C (32 to 104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not applicable.

Industrial sector specific solutions : Not applicable.

SECTION 8: Exposure controls/personal protection

The information in this Section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
No exposure limit value known.	

Derived effect levels

No DNELs available.

Predicted effect concentrations

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection (EN 166) : Goggles, face shield, or other full-face protection.

Skin protection

Hand protection (EN 374) : 1 - 4 hours: butyl rubber, nitrile rubber.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection (EN 143, 14387)	:	A respirator is not needed under normal and intended conditions of product use.
Thermal hazards	:	Not applicable.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid.
Colour	:	Yellow.
Odour	:	Mild odour.
Odour threshold	:	Not applicable and/or not determined for the mixture.
pH	:	1.5 [Conc. (% w/w): 100%]
Melting point/freezing point	:	Not applicable and/or not determined for the mixture.
Initial boiling point and boiling range	:	Not applicable and/or not determined for the mixture.
Flash point	:	> 100°C
Evaporation rate	:	Not applicable and/or not determined for the mixture.
Flammability (solid, gas)	:	Not applicable and/or not determined for the mixture.
Burning time	:	Not applicable and/or not determined for the mixture.
Burning rate	:	Not applicable and/or not determined for the mixture.
Upper/lower flammability or explosive limits	:	Not applicable and/or not determined for the mixture.
Vapour pressure	:	Not applicable and/or not determined for the mixture.
Vapour density	:	Not applicable and/or not determined for the mixture.
Relative density	:	1.07
Solubility(ies)	:	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Not applicable and/or not determined for the mixture.
Auto-ignition temperature	:	Not applicable and/or not determined for the mixture.
Decomposition temperature	:	Not applicable and/or not determined for the mixture.
Viscosity	:	Not applicable and/or not determined for the mixture.
Explosive properties	:	Not applicable.
Oxidising properties	:	None.

9.2 Other information

No additional information.



SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials: acids and alkalis. Slightly reactive or incompatible with the following materials: metals. Non-reactive or compatible with the following materials: organic materials and moisture.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
L-(+)-lactic acid	LD50 Oral	Rat	3,543 mg/kg	-
Alkylsulphonic acid	LD50 Oral	Rat	1,470 mg/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Citric acid	Eyes – Mild irritant	Rabbit	-	0.5 minutes 5 milligrams	-
L-(+)-lactic acid	Eyes – Severe irritant	Rabbit	-	750 micrograms	-
	Skin – Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin – Severe irritant	Rabbit	-	24 hours 5 milligrams	-
Alkylsulphonic acid	Skin – Severe irritant	Rabbit	-	88 percent	-
	Eyes – Moderate irritant	Rabbit	-	0.1 millilitres	-
	Skin – Severe irritant	Rabbit	-	0.5 millilitres	-

Conclusion/Summary : No known significant effects or critical hazards.

Sensitiser

Conclusion/Summary : No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Toxicity for reproduction

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Information on the likely routes of exposure : No known significant effects or critical hazards.

Potential acute health effects



Inhalation	:	May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
Ingestion	:	May cause burns to mouth, throat and stomach.
Skin contact	:	Severely corrosive to the skin. Causes severe burns.
Eye contact	:	Severely corrosive to the eyes. Causes severe burns.

SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological properties

Inhalation	:	No specific data.
Ingestion	:	Adverse symptoms may include the following: stomach pains
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact	:	Adverse symptoms may include the following: pain watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.

Long term exposure

Potential immediate effects	:	No known significant effects or critical hazards.
Potential delayed effects	:	No known significant effects or critical hazards.

Potential chronic health effects

Conclusion/Summary	:	No known significant effects or critical hazards.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	:	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary	:	No known significant effects or critical hazards.
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12.2 Persistence and degradability

Conclusion/Summary	:	The total of the organic components contained in the product achieve values > 60% BOD/COD or CO ₂ liberation, or > 70% DOC reduction in tests for ease of degradability. Threshold values for "readily degradable" (e.g. to OECD method 301) are reached.
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12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Citric acid	-1.72	-	Low



SECTION 12: Ecological information

12.4 Mobility in soil:

Soil/water partition coefficient (K_{oc}) : Not determined for the mixture.

Mobility : Not determined for the mixture.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this Section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste-disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste-disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste notation
20 01 14*	Acids

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN3265	UN3265	UN3265	UN3265
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Lactic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Citric acid, Lactic acid)	Corrosive liquid, acidic, organic, n.o.s. (Citric acid, Lactic acid)
14.3 Transport hazard class(es)	8 	8 	8 	8 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	None.	None.	None.	None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Ingredient declaration according to detergent regulation 648/2004/EC:

<5% anionic surface-active agents

National regulations

Belgium

NL: Volume 15 of the Hazardous Substances Publication Series¹ (PGS 15), Flanders: Vlarem II b²

SECTION 15: Regulatory information

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

¹ note: guidelines relating to fire safety, occupational health and safety and environmental safety

² note: Flemish Regulation



SECTION 16: Other information

Indicates information that has changed from previously issued version.

- Abbreviations and acronyms** :
- ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 - ADR = European Agreement on the Transport of Dangerous Goods by Road
 - ATE = Acute Toxicity Estimate
 - BCF = Bioconcentration Factor
 - CLP = Regulation on Classification, Labelling and Packaging of Substances and Mixtures [Regulation (EC) No 1272/2008]
 - DNEL = Derived No Effect Level
 - DPD = Dangerous Preparations Directive [1999/45/EC]
 - EC = European Commission
 - EUH statement = CLP-specific Hazard statement
 - IATA = International Air Transport Association
 - IBC = Intermediate Bulk Container
 - IMDG = International Maritime Dangerous Goods
 - LogPow = logarithm of the octanol/water partition coefficient
 - MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 - OEL = Occupational Exposure Limit
 - PBT = Persistent, Bioaccumulative and Toxic
 - PNEC = Predicted No-Effect Concentration
 - REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No. 1907/2006]
 - RID = Regulations concerning the International Carriage of Dangerous Goods by Rail
 - REACH# = REACH Registration Number
 - vPvB = very Persistent and very Bioaccumulative
- Full text of abbreviated H statements** :
- H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
- Full text of classifications [CLP / GHS]** :
- | | |
|---------------------|--|
| Acute Tox. 4, H302 | ACUTE TOXICITY: ORAL – Category 4 |
| Eye Dam. 1, H318 | SERIOUS EYE DAMAGE/IRRITATION – Category 1 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/IRRITATION – Category 2 |
| Skin Corr. 1A, H314 | SKIN CORROSION/IRRITATION – Category 1A |
| Skin Corr. 1B, H314 | SKIN CORROSION/IRRITATION – Category 1B |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION – Category 2 |
- Full text of abbreviated R phrases** :
- R22- Harmful if swallowed.
 - R34- Causes burns.

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R35- Causes severe burns. R41- Risk of serious damage to eyes.
R36- Irritating to eyes.
R38- Irritating to skin.

Full text of classifications [DSD/DPD] : C – Corrosive
Xn – Harmful
Xi – Irritant

Date of printing : 21st September 2011

SECTION 16: Other information

Date of issue/ Date of revision : 21st September 2011

Date of previous issue : No previous validation.

Version : 1

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, no warranty (express or implied) is made as to the completeness or continuing accuracy of this information.