

**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 – 004.023.8
Product use : Cleaner
Fabric type : Mixture

information on product dilution : no information on the dilution given

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

contact@brouwland.com
www.brouwland.com

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]

Date from composition/revision

: **12.05.2017**

Composition/revision

Version : 2

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Product definition: : Mixture

Classification (Regulation (EC) No 1272/2008)

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

Skin corrosion/irritation, Category : H314

1A

Severe eye damage, Category 1 : H318

The classification of this product is based solely on its extreme pH value.

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(in accordance with European legislation).

2.2 Label elements

Labelling (Regulation (EC) No 1272/2008)

Hazard pictogram(s) :



Hazard statement(s) :

Declarations of danger

Precautions

Corrosive
 H314 Causes severe burns and eye damage
 Prevention:
 P280 Wear protective gloves/eye protection/face protection.
 Measures:
 P303 + P361 + P353
 If skin (or hair) is contaminated, take off immediately. Rinse/shower skin with water.
 P305+ P351 + P338
ON CONTACT WITH THE EYES:
 Rinse carefully with water for a long time.
 a few minutes; remove contact lenses,
 If possible, continue flushing.
 P310
 Immediately consult an ANTIGIFCENTRUM/doctor.

Hazardous components which must be indicated on the label:

L-(+) lactic acid
 Alkylaryl sulfonic acid

2.3 Other hazards

Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS No. EC No. REACH Number	Classification Regulation (EC) No 1272/2008	Concentration [%]
Citric acid	5949-29-1 201-069-1 01-2119457026-42	Eye irritation Category 2; H319	>= 10 - < 20
L-(+)-lactic acid	79-33-4 201-196-2 01-2119474164-39	Skin corrosion/irritation Category 2; H315 Severe eye damage Category 1; H318	>= 5 - < 10
Alkylsulphonic acid	85536-14-7 287-494-3 01-2119490234-40	Acute toxicity Category 4; H302 Skin corrosion/irritation Category 1C; H314 Severe eye damage Category 1; H318	>= 3 - < 5

For the full text of H-phrases as mentioned in this section, see section 16.

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**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.
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.
If swallowed	:	Rinse mouth with water. Do not induce vomiting. Never allow an unconscious person to drink (or eat). Get medical attention immediately.
By inhalation	:	Transfer to fresh air. Treat symptomatically. Seek medical attention when conditions become noticeable.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically.
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SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	Non-flammable or flammable.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

5.3 Advice for fire-fighters

Special protective equipment for firefighters	:	Use personal protective equipment.
Further information	:	Combustion residues and contaminated extinguishing water must be disposed of in accordance with local



regulations. In case of fire and/or explosion, avoid breathing in smoke.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Advice for other persons than the emergency services** : Ensure adequate ventilation. Remote bystanders and Keeping upwind of spilled material/leakage. Avoid inhalation, ingestion and contact with skin and eyes. In exposure to concentrations above the MAC value must be adequate, approved respiratory protection must be worn. Make sure that cleaning is only carried out by trained personnel. See the protective measures in paragraphs 7 and 8
- Advice to the emergency services** : Avoid contact with soil, surface or groundwater.

6.2 Environmental precautions

- 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**

- Cleaning methods** : Seal the leak if it's safe to do so. Spillage limit and collect with non-combustible absorption materials (e.g. sand, soil, diatomaceous earth, vermiculite) and transfer to a disposal vessel in accordance with local/national regulations (see section 13). In case of extensive spillage, contain or otherwise contain spillages so that the material does not end up in a waterway.

6.4 Reference to other Sections

See Section 1 for emergency contact details.
For personal protection see section 8.
See Section 13 for additional information on waste handling.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling** : Do not swallow. Contact with eyes, skin or clothing avoidance. Do not breathe dust/fumes/gas/mist/vapor/spray. Use only with adequate ventilation. After working with this Wash hands thoroughly. Do not mix with bleach or other products containing chlorine - due to the formation of chlorine gas.
- Hygiene measures** : Use in accordance with current rules and practices relating to industrial hygiene and safety. Remove contaminated clothing and wash before reuse. After handling this product, wash face, hands and



exposed skin thoroughly. Provide adequate facilities for rapid eye and body rinsing or rinsing in the event of contact or splash hazard.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers : Keep away from strong alkalis/bases. Keep out of reach of children.
Keep container tightly closed. Store in containers provided with suitable labels.

Storage temperature : 0 °C to 40 °C

7.3 Specific end use(s)

Specific use : Process cleaner; Cleaning In place (CIP) process

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The product does not contain any components for which legal limits have been set.

DNEL

Alkylaryl sulfonic acid	:	End use: Employees Exposure Route: Skin Possible health conditions: Long term - systemic effects
	:	End use: Employees Route of exposure: Inhalation Possible health conditions: Long term - systemic effects Value: 12 mg/m3
	:	End use: Employees Route of exposure: Inhalation Possible health conditions: Long term - systemic effects Value: 12 mg/m3

PNEC

Alkylaryl sulfonic acid	:	Freshwater Value: 0.287 mg/l
	:	Seawater Value: 0.0287 mg/l
	:	Intermittent use/intermittent emission Value: 0.0167 mg/l
	:	Sewage treatment plant Value: 3.43 mg/l
	:	Freshwater deposition Value: 0.287 mg/l
	:	Sea sediment Value: 0.287 mg/l
	:	Bottom Value: 35 mg/kg

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8.2 Exposure control measures

Appropriate technical management tools

Technical measures : Effective exhaust ventilation system. Keeps the concentrations in the air below the national limit values.

Hygiene measures

Use in accordance with current rules and practices relating to industrial hygiene and safety. Contaminated clothing remove and wash for reuse. After working with this thoroughly product the face, hands and exposed skin washing. Provide adequate facilities for rapid rinsing, or flushing of the eyes and the body in case of contact, or Danger of splashing.

Eye/face protection (EN 166) : wide-view glasses , face shield

Hand protection (EN 374) : Recommended preventive skin protection
Gloves
Nitrile rubber
butyl rubber
Breakthrough time: 1-4 hours
Minimum thickness for butyl rubber 0.7 mm and for nitrile rubber 0.4 mm or equivalent (consult your glove supplier for advice)
Gloves should be disposed of and replaced when signs of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment includes: suitable protective gloves, goggles and protective clothing

Respiratory protection (EN 143, 14387) : None required when the concentrations in the air below the Exposure Limit as stated in the Exposure Limit Information are maintained. Use certified respiratory protection in accordance with EU requirements. (89/656/EEC, 89/686/EEC), or equivalent, where the respiratory risks cannot be avoided or sufficient limited by collective technical protection equipment or by measures, methods or procedures of work organisation.

Environmental exposure control

General advice : Consider the precaution of containment around storage drums.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Colour : Yellow.
Odour : Mild odour.
pH 1.5, 100%
Flash point Not applicable
Odour threshold Not applicable and/or determined for the mixture
Melting/freezing point Not applicable and/or determined for the mixture
Initial boiling point and Not applicable and/or determined for the mixtures
Evaporation rate : Not applicable Not applicable and/or determined for the mixtures
and/or determined for the mixture

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Flammability (so	Not applicable and/or determined for the mixtures
Flammability (solid, gas)	Not applicable and/or determined for the mixtures
Upper explosion limit	Not applicable and/or determined for the mixtures
Lower explosion limit	Not applicable and/or determined for the mixtures
Vapour pressure	Not applicable and/or determined for the mixtures
Relative vapour density	Not applicable and/or determined for the mixtures
Relative density	1.07
Solubility in water	soluble
Solubility in other solvents	Not applicable and/or determined for the mixtures
Noctanol partition coefficient	Not applicable and/or determined for the mixtures
Self-ignition temperature	Not applicable and/or determined for the mixtures
Thermal decomposition	Not applicable and/or determined for the mixtures
Viscosity, kinematic	Not applicable and/or determined for the mixtures
Explosion properties	Not applicable and/or determined for the mixtures
Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or determined for the mixture

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Under normal conditions of use, no dangerous reactions have been observed.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Do not mix with products containing bleach or other chlorine - due to chlorine gas formation.
10.4 Conditions to avoid	:	No specific data.
10.5 Chemically interacting materials	:	Acids Bases Metals
10.6 Hazardous decomposition products	:	Decomposition products may include: Carbon oxides Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information about probable exposure pathways : **Inhalation, Eye contact, Skin contact**

Acute oral toxicity	:	Acute toxicity estimates : > 2,000 mg/kg
Acute inhalation toxicity	:	No data are available for this product.
Acute Dermal Toxicity	:	No data are available for this product.
Skin corrosion/irritation	:	No data are available for this product.
Serious eye damage/irritation	:	No data is available for this product.
Sensitization of the respiratory tracts/skin	:	No data are available for this product.



Carcinogenicity : No data is available on this product.
 Reproductive effects : No data are available for this product.
 Mutagenicity in : No data are available for this product.
 Germ cells
 Teratogenicity : There are no data available on this product.
 STOT at one time : There are no data available about this product.
 Exposure
 STOT on repeated : There are no data available on this product.
 Exposure
 Aspiration Toxicity : There is no information available about this product.

Acute ofale toxiciteit

Product/ingredient name	Result	Species	Dose	Exposure
L-(+)-lactic acid	LD50 Oral	Rat	3,543 mg/kg	-
citric acid	LD50	Rat	11,700 mg/kg	-
Alkylsulphonic acid	LD50 Oral	Rat	1,470 mg/kg	-

Acute toxicity by inhalation

Product/ingredient name	Result	Species	Dose	Exposure
L-(+)-lactic acid	4 h LD50 Oral	Rat	7.94 mg/l	-

Acute dermal toxicity

Product/ingredient name	Result	Species	Dose	Exposure
L-(+)-lactic acid	LD50	Rat	2,000 mg/kg	-
citric acid	LD50	Rabbit	> 2,000 mg/kg	-
Alkylsulphonic acid	LD50	Rabbit	> 2,000 mg/kg	-

Potential acute health effects

Eyes : Causes serious eye damage.
Skin : Causes severe skin burns.
Intake : Causes burns to the digestive tract.
inhalation : May cause irritation to nose, throat and lungs.
Chronic exposure : Health injury during normal use not known or too common.
 ...expecting.

SECTION 11: Toxicological information

Possible health effects

Eyes : Causes serious eye damage.
Skin : Causes severe skin burns.
Intake : Causes burns to the digestive tract.
Inhalation : May cause irritation to nose, throat and lungs.
Chronic exposure : Health injury during normal use not known or too common.
 foresee

Experience with human exposure

Eye contact : Redness, Pain, Corrosion
Skin contac : Redness, Pain, Corrosion
Ingestion : Corrosion, Abdominal pain
Inhalation : Respiratory irritation, Coughing



SECTION 12: Ecological information

12.1 Toxicity

Environmental impact : No ecotoxicological effects of this product are known.

Product

Toxicity to fish	No data available
Toxicity to daphnia and other invertebrates	No data available other invertebrate
Toxicity to algae	No data available

Components

Toxicity to fish	Citric acid 96 h LC50 Fish: > 100 mg/l
	L-(+)-lactic acid 96 h LC50 Fish: 130 mg/l
	Alkylaryl sulfonic acid 96 h LC50 Fish: 1.67 mg/l

12.2 Persistence and degradability

Product

Biodegradability : The surfactants in the product are biological biodegradable in accordance with the requirements of the Detergents Regulation 648/2004/EC.

Components

Biodegradability : Citric acid
Result: Easily biodegradable.
L-(+)-lactic acid
Result: Easily biodegradable.
Alkylaryl sulfonic acid
Result: Easily biodegradable

12.3 Bioaccumulative potential

No data available

SECTION 12: Ecological information

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

Dispose of in accordance with the European Directives on Waste and Hazardous Materials. Waste codes must be assigned by the user, preferably in consultation with the waste management authorities.



13.1 Waste treatment methods

Product

Product : Reuse where possible is preferable to removal or incineration. If reuse is not possible, dispose of according to local regulations. Dispose of waste to an authorised disposal company.

Contaminated packaging : Remove as unused product. Empty containers must be disposed of in an approved waste processing plant for reuse or disposal. Do not reuse empty containers. Dispose of in accordance with local, state and federal regulations.

Guide to Waste Code selection : Hazardous substances containing organic waste. If this product is used in all further processes, then the end user must determine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxic and physical properties of the generated material in order to correctly identify and process the waste in accordance with the applicable European (EU) directive. 2008/98/EC and local regulations .

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SECTION 14: Transport information

The shipper/sender/sender/consignor is responsible for ensuring that the packaging, labelling and marking is in accordance with the selected mode of transport.

Road transport (ADR/ADN/RID)

	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: REGULATION

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

In accordance with the Detergents Regulation EC 648/2004 : less than 5 %: Anionogenic surfactants Preservatives: L-(+) lactic acid

National regulations

Take note of Directive 94/33/EC on the protection of young people at work.
Other regulations : EN: PGS 15 (if ADR 5.2; PGS 8), Flanders: Vlarem II bis

SECTION 15: Chemical safety assessment

15.2 Chemical safety assessment : This product contains components for which chemical safety assessments are required.

SECTION 16: Other information

Procedure used to derive the classification in accordance with.

Regulation (EC) No 1272/2008

classification	justification
Skin corrosion/irritation 1A, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment

Full text of the 'H' declarations

H302	Harmful if swallowed.
H314	Causes severe burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by inland waterway; ADR - European agreement concerning international transport of dangerous goods by road (ADR agreement); AICS - Environmental workplace exposure limit; ASTM - American Association for the testing of materials; bw - Body weight; CLP - Ordinance on classification, labelling and packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic for reproduction; DIN - Standard or the German Institute for Standardization; DSL - List of indoor use substances (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Load capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and new chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally harmonised system; GLP - Good laboratory practice; IARC - International agency for research on cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Safety of Life at Sea; and construction and equipment of ships carrying dangerous chemicals in bulk; IC50 - - construction and equipment of ships carrying dangerous chemicals in bulk.
Half-maximum inhibitory concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory list of existing chemicals in China; IMDG - International maritime

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dangerous goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Security Health Law (Japan); ISO - International Organization for Standardization; KECI - Korean inventory of existing chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution by Dangerous Substances - International Convention for the Prevention of Pollution by Dangerous Substances ships; n.o.s. - Not otherwise specified; NO(A)EC - No observable (negative) effect on concentration; NO(A)EL - No observable (negative) effect on Level; NOELR - None observable effect on loading capacity; NZIoC - New Zealand's inventory of chemicals; OECD - Organisation for Economic Cooperation and Development OECD; OPPTS - Office for chemical safety and pollution prevention; PBT - Perishable, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relations; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation and Restriction of Chemicals (REACH) authorisation and restriction of chemicals (REACH); RID - Regulation concerning the international carriage of dangerous goods by rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety data sheet; TCSI - Taiwanese Inventory List of Chemical Substances; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (US); UN - United Nations; vPvB - Very difficult to degrade and very bioaccumulative

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