

Safety Data Sheet according to (EC) Nr. 1907/2006



Revision Date : 15.06.2020
Version: 1.1

Atec 3001 acidic membrane cleaner

Replaced Version: 1.0

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

1.1 Product identifier

Product name: Atec 3001 acidic membrane cleaner

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

Identified uses: membrane cleaner

1.3 Details of the supplier of the safety data sheet

Company

Atec Automatisierungstechnik GmbH
Emmi-Noether-Str. 6
D-89231 Neu-Ulm
Germany

Responsible Department

Abteilung Umwelttechnik

Phone / Fax / e-mail

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1.4 Emergency telephone number

2 Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

- Eye irritation, Category 2 H319 Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Signal word: Warning

Reduced labelling (<=125ml):



Signal word: Warning

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Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2 Other hazards

The substances or mixture do not meet the PBT/vPvB and SVHC criteria according to REACH.

3 Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Chemical nature Aqueous solution

Hazardous components (REGULATION (EC) No 1272/2008):

CAS: 77-92-9	Citric acid	45 – 55 %
Registration number (Reach): 01-2119457026-42-XXXX	Eye irritation, Category 2, H319	

Full text of H and EUH statements see section 16.

4 First aid measures

4.1 Description of first aid measures

After inhalation:

fresh air.

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact

Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing

Immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Pain, Bloody vomiting
irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture:

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters:

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information:

Prevent fire extinguishing water from contaminating surface water or the ground water system..

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area..

6.4 Reference to other sections

Indications about waste treatment see section 13.

7 Handling and storage

7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Keep container tightly closed.

7.3 Specific end use(s)

No further information available.

8 Exposure controls/personal protection

8.1 Control parameters

Predicted No Effect Concentration (PNEC):

Components:

77-92-9 citric acid

Water	0,44 mg/l (fresh water) 0,044 mg/l /marine water) 1000 mg/l (sewage treatment plant)
Sediment	34,6 mg/kg (fresh water sediment) 3,46 mg/kg (marine water sediment)
Soil	0,72 mg/kg (Boden)

8.2 Exposure controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures (personal protective equipment):

8.2.1 Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: ABEK-filter

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

8.2.2 Skin and hand protection

Safety gloves:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Material type:

NBR (Nitrile rubber)

material thickness:

>0,11 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Other protective equipment:

Protective clothing

8.2.2 Eye/face protection

Use safety goggle with side protection. (Korbbrille DIN 58211, EN 166)

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8.3 Environmental exposure controls

Keep away from drains, surface and ground water.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form :	liquid
Color :	colorless
Odour :	characteristic
Odour Threshold :	-
pH-Wert :	2,4
Melting point :	not applicable
Boiling point :	no information available
Flash point :	no information available
Evaporation rate :	no information available
Explosion limits :	no information available
Explosive properties :	not classified as explosive
Density :	1,24 g/cm ³ (at 20°C)
Solubility :	soluble (in Water)

9.2 Other data

None.

10 Stability and reactivity

10.1 Reactivity

see section 10.3.

10.2 Chemical stability:

the product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

violent reactions possible with: Metals, Oxidizing agents, Bases, Reducing agents

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

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11 Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Pain, Bloody vomiting

Acute inhalation toxicity: Possible symptoms:, mucosal irritations

Acute dermal toxicity: This information is not available.

Skin irritation: This information is not available.

Eye irritation: Mixture causes serious eye irritation.

Sensitisation: This information is not available.

Germ cell mutagenicity: This information is not available.

Carcinogenicity: This information is not available.

Reproductive toxicity: This information is not available.

Teratogenicity: This information is not available.

Specific target organ toxicity - single exposure: This information is not available.

Specific target organ toxicity - repeated exposure: This information is not available.

Aspiration hazard: This information is not available.

11.2 Further information

Substance which occurs in the human body under physiological conditions.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components: citric acid (77-92-9)

Acute oral toxicity:	LD50 Rat: 11.700 mg/kg	OECD Test Guideline 401
Acute dermal toxicity:	LD50 Rat: > 2.000 mg/kg	OECD Test Guideline 402
Skin irritation:	Rabbit - Result: No irritation	OECD Test Guideline 404
Eye irritation:	Rabbit - Result: Severe irritations	OECD Test Guideline 405

Germ cell mutagenicity; Genotoxicity in vivo; Chromosome aberration test: Rat; male; Oral
Result: negative OECD Test Guideline 475

Genotoxicity in vitro; Ames test; Salmonella typhimurium
-Result: negative OECD Test Guideline 471

Reproductive toxicity: No impairment of reproductive performance in animal experiments. (Lit.)

Teratogenicity: Did not show teratogenic effects in animal experiments. (Lit.)

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12 Ecological information

12.1 Toxicity:

Mixture: no information available.

Components:

77-92-9 citric acid

LC50 (96 h)	440-760 mg/l	(Fish) (IUCLID)
EC50 (72 h)	485 mg/l	(E. sulcatum) (Lit.)
EC50 (72 h)	120 mg/l	(Daphnia magna) (IUCLID)
IC5 (7d)	640 mg/l	(Green algae) (Lit.)
EC5 (16h)	>10g/l	(Pseudomonas putida) (Lit.)

12.2 Persistence and degradability

Mixture: no information available.

Components:

77-92-9 citric acid

Biodegradability:		
Readily biodegradable	97 %; 28 d; aerobic	OECD Test Guideline 301B
Biochemical Oxygen Demand (BOD):		
	526 mg/g (5 d)	IUCLID
Chemical Oxygen Demand (COD)		
	728 mg/g	IUCLID

12.3 Bioaccumulative potential:

Mixture: no information available.

12.4 Mobility in soil:

Mixture: no information available.

12.5 Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

12.6 Other adverse effects:

Discharge into the environment must be avoided.

13 Disposal considerations

13.1 Waste treatment methods

Advice on disposal:

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

13.2 Waste disposal number

15 01 02 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED:

packaging (including separately collected municipal packaging waste); plastic packaging

06 01 06 OTHER ACIDS: Used liquid membrane cleaner has to be deemed a **processed product** – hence waste disposal number may have to be determined consulting respective process experts and local authorities.

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13.3 Contaminated packaging

Non-contaminated packages may be recycled.

14 Transport information

14.1 UN Number

ADR, IMDG, IATA

Not classified as dangerous (transport regulations)

14.2 UN proper shipping name

ADR

IMDG, IATA

not relevant (transport regulations)

14.3 Transport hazard classes

ADR

IMDG, IATA

not relevant

14.4 Packing group

not relevant

14.5 Environmental hazards

none (non-environmentally hazardous)

14.6 Special precautions for user

There is no additional information.

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

Not relevant

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15 Regulatory information

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

EU regulations

Major Accident Hazard Legislation	SEVESO III Not applicable
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Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:
not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC
not regulated

Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

16 Other information

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

Training advice

Provide adequate information, instruction and training for operators.

Used abbreviations and acronyms

can be looked up at www.wikipedia.org.

16.1 Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

16.2 Hazard and precautionary statements

H319 Causes serious eye irritation.

P305 + P351 + P338:

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.