No. 1907/2006 (REACH) Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



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

1.1. Product identifier

Name of product Puryclean

Art-Nr 06.1033.00

Name of substance citric acid monohydrate

EC No 201-069-1

REACH registration number 01-2119457026-42-XXXX

CAS No 5949-29-1

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

Recommended intended purpose(s)

cleaning agent

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Yachticon A. Nagel GmbH

Hans-Böckler-Ring 33, D-22851 Norderstedt Phone +49 40 511 3780, Fax +49 40 51 74 37

E-Mail yachticon@yachticon.de Internet www.yachticon.de

Advice

Phone +49 40 511 37 80 Fax +49 40 51 74 37 E-mail (competent person): yachticon@yachticon.de

1.4. Emergency telephone number

Emergency advice Giftinformationszentrale Berlin

Phone +49 (0)30 192 40

Classification procedure

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard Hazard

categories Statements

Eye Irrit. 2 H319

Hazard statements for health hazards

H319 Causes serious eye irritation.

! Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



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



Signal word

Warning

Hazard statements for health hazards

Causes serious eye irritation.

Precautionary Statements

! General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

! Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

P338 if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

! Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

CAS No 5949-29-1

citric acid monohydrate

EC No 201-069-1

REACH registration number 01-2119457026-42-XXXX

3.2. Mixtures

not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove moisted clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4





In case of ingestion

Rinse out mouth thoroughly with water.

In the event of symptoms refer for medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Avoid skin and eye contact.

Avoid dust formation.

Use personal protective clothing.

Do not breathe dust.

6.2. Environmental precautions

No information available.

6.3. Methods and material for containment and cleaning up

Send in suitable containers for recovery or disposal.

Flush away residues with water.

After taking up the material dispose according to regulation.

Take up mechanically.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

Personal protection equipment: see section 8 Emergency telephone number: see section 1

No. 1907/2006 (REACH)
Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Handle in accordance with good industrial hygiene and safety practice.

General protective measures

Avoid contact with the eyes.

Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Provide acid-resistant floor.

Advice on storage compatibility

Do not store with alkalies.

Do not store together with oxidizing agents.

Further information on storage conditions

Keep container dry, tightly closed and store at cool place.

Storage group 13

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

In case of dust formation wear micro dust mask.

Not necessary with adequate exhaust ventilation.

Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, Email: Vertrieb@kcl.de)

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Eye protection

safety goggles

Other protection measures

Light protective clothing.

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



Appropriate engineering controls

Ensure good ventilation, where necessary use fume hood.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour Odour **Appearance** white solid odourless

Odour threshold

No information available.

	Value	Temperature	at	Method	Remark
pH value	1,8	20 °C	50 g/l		
Boiling temperature / boiling range	No information available.				
decomposition point	> 170 °C				
Flash point					not applicable
Vapourisation rate	No information	available.			
Flammable (solid)					The product is not flammable.
Flammability (gas)	No information	available.			
Ignition temperature	No information	available.			
Self ignition temperature					The product is not selfigniting.
Lower explosion limit	No information	available.			
Upper explosion limit	No information available.				
Vapour pressure	No information available.				
Relative density	1,54 g/cm3	20 °C			
Bulk density	550-950 kg/m3	3			
Vapour density	No information	available.			
Solubility in water	676 g/l	25 °C			soluble
Solubility/other	No information	available.			

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



Value Temperature at Method Remark

Partition coefficient noctanol/water (log P

O/W)

No information available.

Decomposition

temperature

No information available.

Viscosity No information available.

Oxidising properties

No information available.

Explosive properties

The product is not explosive.

9.2. Other information

No information available.

! SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Reactions with strong oxidising agents.

Reactions with alkalies.

10.4. Conditions to avoid

heat

10.5. Incompatible materials

Materials to avoid

Alkali (lye)
Oxidising agent

10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide

Thermal decomposition

Remark No decomposition if used as directed.

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark	
LD50 acute oral	5400 mg/kg	mouse			
LD50 acute dermal	> 2000 mg/kg	rat			
				and determined	

LC50 acute not determined inhalation

Irritability skin low irritant effect - not necessary to label

Irritability eye irritant

Skin sensitization No known sensitization.

Sensitization respiratory system

No known sensitization.

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.

Additional information

Further hazardous properties can not be excluded.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Lootoxiooid	Value	Species	Method	Validation
Fish	LC50 440 mg/l (48 h)	Golden orfe	OECD 203	
Daphnia	1535 mg/l (24 h)	Daphnia magna		
Algae	425 mg/l (168 h)	Scenedesmus quadricauda		
Bacteria	> 10000 mg/l (16 h)	Pseudomonas putida		
12.2 Persis	tence and degradability			

12.2. Persistence and degradability

Biological 98 % (2 d)

degradability

readily degradable

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

Additional ecological information

	Value	Method	Remark	
BOD	526 mg/g			

General regulation

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Uncontaminated packaging may be treated as household waste.

Disposal according to official regulations.

Recommended cleansing agent

water

General information

Allocation of the waste number has to be done according to the EWC directive industry- and process-specific.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-

No. 1907/2006 (REACH)

Printed 10.02.2016

revision 10.02.2016 (GB) Version 1.4

Puryclean



ADR/RID IMDG IATA-DGR

14.5. Environmental

hazards

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

! SECTION 15: Regulatory information

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

National regulations

Water hazard class 1 following VwVwS

slightly hazardous to water

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Training advice

See the technical data sheet for more information.

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The national special regulations have to be implemented by each user their own responsibility! The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.3 **Sources of key data used**

Data sheets of the suppliers.