

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

1.1. Product identifier

Name of product Clean a Tank
Art-Nr: 1.0102.01032.00000
UFI: / BAuA Nr.: RMU2-H02S-R00K-G6RH / -

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
Bürgermeister-Bombeck-Str. 1, 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 30686700
England, Wales and Scotland dial: 111; Republic of
Ireland dial: 01 809 2166

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 categories	Hazard Statements	Classification procedure
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Eye Irrit. 2	H319	
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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

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



GHS07

Clean a Tank**Signal word**

Warning

Hazard statements for health hazards

H319 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 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, 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**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

not applicable

3.2. Mixtures**Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
5949-29-1	201-069-1	Citric acid monohydrate	> 80	Eye Irrit. 2, H319
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	< 3	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412

REACH

CAS No	Name	REACH registration number
5949-29-1	Citric acid monohydrate	01-2119457026-42-XXXX
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	01-2119565112-48-XXXX

Labelling for contents according to regulation (EC) No 648/2004, annex VII

less than 5 % anionic surfactants

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

Remove moisted clothing immediately.

In the event of persistent symptoms receive medical treatment.

Clean a Tank

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.

In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.

Remove contact lenses.

Refer to medical treatment.

In case of ingestion

Rinse out mouth and give plenty of water to drink.

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

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

In the case of thermal decomposition formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Sulfur oxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Wear protective clothing.

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.

Clean a Tank

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

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.

Avoid contact with skin and eyes.

General protective measures

Do not inhale dust.

Avoid contact with the skin.

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 alkalis.

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

DNEL-/PNEC-values

Clean a Tank**DNEL worker**

CAS No	Substance name	Value	Code	Remark
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	170 mg/kg bw/day	DNEL long-term dermal (systemic)	
		12 mg/m ³	DNEL long-term inhalative (systemic)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	85 mg/kg bw/day	DNEL long-term dermal (systemic)	
		0,85 mg/kg	DNEL long-term oral (repeated)	
		3 mg/m ³	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	5,6 mg/l	PNEC sewage treatment plant (STP)	
		8,1 mg/kg dw	PNEC sediment, marine water	
		0,0268 mg/l	PNEC aquatic, marine water	
		35 mg/kg dw	PNEC soil	
		0,268 mg/l	PNEC aquatic, freshwater	
5949-29-1	Citric acid monohydrate	8,1 mg/kg dw	PNEC sediment, freshwater	
		3,46 mg/kg	PNEC sediment, marine water	
		34,6 mg/kg	PNEC sediment, freshwater	
		440 mg/l	PNEC aquatic, freshwater	

8.2. Exposure controls**Respiratory protection**

Particle filter P2

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]: Nitrile, 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.

Clean a Tank**Eye protection**

safety goggles

Other protection measures

protective clothing

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****Appearance**

solid

Colour

white

Odour

odourless

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	1,8	20 °C	50 g/l		
Boiling temperature / boiling range	not determined				
decomposition point	> 170 °C				
Flash point					not applicable
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	540 °C				The data refer to the main component.
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	not determined				
Bulk density	550-950 kg/m ³				
Vapour density	not determined				

Clean a Tank

	Value	Temperature	at	Method	Remark
Solubility in water	ca. 650 g/l	25 °C			soluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

Oxidising properties

No information available.

Explosive properties

The product is not explosive.

Combined with air, the dust can form an explosive mixture.

9.2. Other information

Refer to technical data sheet.

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

No information available.

10.2. Chemical stability

Stable under normal conditions of use.

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

Reactions with reducing agents.

Reactions with alkalies and metals.

10.4. Conditions to avoid

heat

10.5. Incompatible materials**Substances to avoid**

Alkali (lye)

Oxidising agent

Reducing agent

metals

10.6. Hazardous decomposition products

Concerning possible decomposition products see section 5.

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	5400 mg/kg	mouse		Information concerns to main component.
LD50 acute dermal	> 2000 mg/kg	rat		Information refers to main component.
LC50 acute inhalation				not determined
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	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.
Reproduction-Toxicity				No evidence of reproductive toxicity.
Carcinogenicity				No evidence of possible carcinogenic effects.
Specific target organ toxicity (single exposure)	No effect known.			
Specific target organ toxicity (repeated exposure)	No effect known.			
Aspiration hazard	No classification in terms of aspiration.			
Experiences made from practice	May cause eye and skin irritation.			

Clean a Tank**! Additional information**

The product should be handled with the care usual when dealing with chemicals.
Further hazardous properties can not be excluded.

! SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 440 mg/l (48 h)	Golden orfe	OECD 203	Information refers to main component.
Daphnia	1535 mg/l (24 h)	Daphnia magna		Information refers to main component.
Algae	425 mg/l (168 h)	Scenedesmus quadricauda		Information refers to main component.
Bacteria	> 10000 mg/l (16 h)	Pseudomonas putida		Information refers to main component.

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	98 % (2 d)			readily degradable
	Data refer to main component.			

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects**Additional ecological information**

	Value	Method	Remark
BOD	526 mg/g		Data refer to main component.

General regulation

Do not allow uncontrolled leakage of product into the environment.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Recommendations for the product**

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Clean a Tank

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

Totally emptied packaging may be taken for recycling.
 Totally emptied 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	-	-	-
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 AwSV (Germany)
 slightly hazardous to water

Decree for case of interference/remarks Not subject to the Hazardous Incident Ordinance

Clean a Tank

15.2. Chemical Safety Assessment

No information available.

! SECTION 16: Other information

Training advice

See the technical data sheet for more information.

CAS - Chemical Abstracts Service; CLP - classification, labeling and packaging; DNEL - derived exposure level without adverse effects; GHS - Globally Harmonized System for Classification and Labeling of Chemicals; LC50 - Median Lethal Concentration;

OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic; PNEC - Estimated No Effect Concentration; STOT - Specific Target Organ Toxicity; SVHC - substance of very high concern;

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: 1.6

! Sources of key data used

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

Full text of Hazard Statements in Section 3 (NOT classification of the mixture).

Federal Environment Agency (water hazard classes)

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.