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

### 1.1. Product identifier

**Name of product** Waste Water Tank Super Cleaner  
Art-Nr 1.0602.07531.00000

**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

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## 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
Acute Tox. 4	H302	
Skin Corr. 1B	H314	
Aquatic Chronic 3	H412	

### Hazard statements for health hazards

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### 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]**



GHS05



GHS07

**Signal word**

Danger

**Hazard statements for health hazards**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**General**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

**Prevention**

P260 Do not breathe dust.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor/...

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to an approved waste handling.

**Hazardous ingredients for labeling**

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

**Additional information**

**Special rules on packaging**

Touchable warning sign (EN/ISO 11683).  
Childproof closures (EN/862/ISO 8317).

**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]
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	< 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412
70693-62-8	274-778-7	Pentapotassium bis(peroxymonosulphate) bis(sulphate) (POTASSIUM CAROATE)	> 50 < 80	Acute Tox. 4, H302 (oral) / Skin Corr. 1B, H314 / Aquatic Chronic 3, H412

#### REACH

CAS No	Name	REACH registration number
	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide	01-2119565112-48-XXXX
70693-62-8	Pentapotassium bis(peroxymonosulphate) bis(sulphate) (POTASSIUM CAROATE)	01-2119485567-22-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 contaminated soaked clothing immediately and dispose it safely.

In case of accident or if you feel unwell seek medical advice immediately (if possible show directions for use or safety data sheet).

#### In case of inhalation

Ensure of fresh air.

Rinse mouth and nose with water.

#### In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

#### In case of eye contact

Remove contact lenses.

Seek medical advice immediately.

Immediately rinse open eyes 10 to 15 minutes under running water.

#### In case of ingestion

Rinse out mouth and give plenty of water to drink.

Do NOT induce vomiting - risk of perforation!

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

No information available.

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

**Treatment (Advice to doctor)**

Treat symptoms.

Symptoms can appear later.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam

Dry powder

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.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

Wear full protective clothing.

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Cool containers with water.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Do not breathe dust.

Avoid contact with clothing, skin and eyes.

Warn persons who are present in the danger zone.

Keep unprotected persons away.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Knock down dust with water spray jet.

If product enters water course or sewage system, inform the responsible authority.

**6.3. Methods and material for containment and cleaning up**

Avoid dust formation.

Send in suitable containers for recovery or disposal.

Flush away residues with water.

After taking up the material dispose according to regulation.

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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

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid the formation and deposition of dust.  
Dust which can not be avoided must be regularly removed.  
Do not breathe 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.  
Keep container tightly closed.  
Avoid mixing with alkalis / alkali-containing products ABSOLUTELY!

#### **General protective measures**

Avoid contact with eyes and skin  
Do not inhale dust.

#### **Hygiene measures**

Clean skin thoroughly after working.  
At work do not eat, drink and smoke.  
Remove soiled or soaked clothing immediately.  
Work in rooms with good ventilation.  
Wash hands before breaks and after work.  
Use barrier skin cream.

#### **Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep in closed original container.

#### **Advice on storage compatibility**

Do not store with alkalies.  
Store and transport separate of food.

#### **Further information on storage conditions**

Protect from extreme heat and cold.  
Keep container in a well-ventilated place  
Recommended storage temperature: < 30°C.  
Keep container tightly closed and store at a cool and dry place.

### **7.3. Specific end use(s)**

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL-/PNEC-values

##### DNEL worker

CAS No	Substance name	Value	Code	Remark
70693-62-8	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/m3	DNEL long-term inhalative (systemic)	
	Pentapotassium bis(peroxymonosulphate) bis(sulphate) (POTASSIUM CAROATE)	0,28 mg/m3	DNEL long-term inhalative (systemic)	
		50 mg/m3	DNEL acute inhalative (systemic)	
		0,28 mg/m3	DNEL long-term inhalative (local)	
		80 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		50 mg/m3	DNEL acute inhalative (local)	
		20 mg/kg bw/day	DNEL long-term dermal (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	0,85 mg/kg	DNEL long-term oral (repeated)	
		3 mg/m3	DNEL long-term inhalative (systemic)	
		85 mg/kg bw/day	DNEL long-term dermal (systemic)	

##### PNEC

CAS No	Substance name	Value	Code	Remark
70693-62-8	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)	
		0,0268 mg/l	PNEC aquatic, marine water	
		0,268 mg/l	PNEC aquatic, freshwater	
		35 mg/kg dw	PNEC soil, freshwater	
		8,1 mg/kg dw	PNEC sediment, marine water	
		8,1 mg/kg dw	PNEC sediment, freshwater	
		Pentapotassium bis(peroxymonosulphate) bis(sulphate) (POTASSIUM CAROATE)	0,00173 mg/kg	PNEC sediment, marine water

**Waste Water Tank Super Cleaner****DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		108 mg/l	PNEC sewage treatment plant (STP)	
		0,00222 mg/l	PNEC aquatic, marine water	
		0,022 mg/l	PNEC aquatic, freshwater	
		0,0109 mg/l	PNEC aquatic, intermittent release	
		0,885 mg/kg	PNEC soil, freshwater	
		0,017 mg/kg	PNEC sediment, freshwater	

**8.2. Exposure controls****Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Multi-purpose filter ABEK/P3

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**

tightly fitting 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**

almost odourless

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	< 7	20 °C		10 g/l	
<b>Boiling temperature / boiling range</b>	not determined				

**Waste Water Tank Super Cleaner**

	Value	Temperature	at	Method	Remark
<b>Melting point / Freezing point</b>					The main component decomposes below the melting point.
<b>Flash point</b>	not determined				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>		20 °C			
<b>Relative density</b>	not determined				
<b>Bulk density</b>	1100 kg/m <sup>3</sup>				Information refers to the main component.
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	ca. 80 °C			Self-Accelerating Decomposition Temperature (SADT): The lowest temperature at which self-accelerating decomposition of a substance in the packaging, as used for carriage, may occur.	Information refers to the main component.
<b>Viscosity</b>	not determined				



**Oxidising properties**

No information available.

**Explosive properties**

No information available.

**9.2. Other information**

Refer to technical data sheet.

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**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 alkalies.

**10.4. Conditions to avoid**

Avoid heat and direct sunlight.

**10.5. Incompatible materials**

**Substances to avoid**

Alkali (lye)

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark Decomposes before melting.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	500 mg/kg	rat	OECD 420	Information refers to main component.
<b>Skin irritation</b>	corrosive			
<b>Eye irritation</b>	corrosive			
<b>Skin sensitization</b>	No known sensitization.			
<b>Sensitization respiratory system</b>	No known sensitization.			

#### 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
<b>Fish</b>	LC50 53 mg/l (96 h)	Oncorhynchus mykiss	OECD 203	Information refers to main component.
<b>Algae</b>	ErC50 > 1 mg/l (72 h)	Pseudokirchneriella subcapitata	OECD 201	Information refers to main component.
<b>Bacteria</b>	EC50 100 mg/l (3 h)		OECD 209	Information refers to main component.

### 12.2. Persistence and degradability

No information available.

### 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

Harmful effect in the water possible by shifting of the pH value.

#### Behaviour in sewage plant

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

#### General regulation

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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

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

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**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	3260	3260	3260
<b>14.2. UN proper shipping name</b>	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	Corrosive solid, acidic, inorganic, n.o.s.
<b>14.3. Transport hazard class(es)</b>	8	8	8
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No

**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.

**Land and inland navigation transport ADR/RID**

Hazard label(s) 8

tunnel restriction code E

Classification code C2

**SECTION 15: Regulatory information**

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

No information available.

**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!

**Waste Water Tank Super Cleaner**

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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: 1.0

**Sources of key data used**

Data sheets of the suppliers.

European Chemicals Agency (ECHA)

Full text of the hazard phrases in section 2 and 3.

Federal Environment Agency (water hazard classes)

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H412 Harmful to aquatic life with long lasting effects.