

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

### 1.1. Product identifier

Name of product Purytec  
Art-Nr 1.0602.00535.00000

**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  
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
Skin Irrit. 2	H315	
Skin Sens. 1	H317	
Aquatic Chronic 2	H411	

#### ! Hazard statements for health hazards

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

#### Hazard statements for environmental hazards

H411 Toxic 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]**



GHS07



GHS09

**! Signal word**  
Warning

**! Hazard statements for health hazards**

- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

**Hazard statements for environmental hazards**

- H411 Toxic 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**

- P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**! Response**

- P302 + P352 IF ON SKIN: Gently wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**! Disposal**

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

**Hazardous ingredients for labeling**

Orange, sweet, extract

**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]
8028-48-6	232-433-8	Orange, sweet, extract	5 - 15	Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 1, H410 / Asp. Tox. 1, H304
119-36-8	204-317-7	methyl salicylate	< 5	Acute Tox. 4, H302

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## REACH

CAS No	Name	REACH registration number
8028-48-6	Orange, sweet, extract	01-2119493353-35-XXXX
119-36-8	methyl salicylate	01-2119515671-44-XXXX

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

LIMONENE (CAS 5989-27-5)

LINALOOL (CAS 78-70-6)

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## ! 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.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

#### In case of skin contact

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

#### In case of eye contact

Eye rinsing with water carefully while protecting unhurt eye.

Remove contact lenses.

Call for a doctor immediately.

#### ! In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

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.

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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

### 5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Attention slip hazard, if leaking.

In case of fire, irritating gases may form.

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### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply ( isolated ).

#### Additional information

Cool endangered containers with water spray jet.

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.

Remove containers from the danger area, if possible without risk.

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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 skin and eye contact.

Use personal protective clothing.

Do not breathe vapors.

Avoid contact with clothing, skin and eyes.

Warn persons who are present in the danger zone.

Keep unprotected persons away.

Use suitable breathing apparatus if exposed to vapors / aerosol.

### 6.2. Environmental precautions

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

Suppress gases/vapours/mists 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

Send in suitable containers for recovery or disposal.

Take up residues with absorbent material (e.g. sand, general-purpose binder).

Flush away residues with water.

After taking up the material dispose according to regulation.

Ensure adequate ventilation.

### 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

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

Keep container tightly closed.

#### General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

#### 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.

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

##### Requirements for storage rooms and vessels

Keep in closed original container.

##### Advice on storage compatibility

Store and transport separate of food.  
Do not store together with oxidizing agents.

##### Further information on storage conditions

Keep container tightly closed and store at cool and aired place.  
Protect from extreme heat and cold.

**Storage group** 12

#### 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
8028-48-6	Orange, sweet, extract	31,1 mg/m <sup>3</sup>	DNEL acute inhalative (systemic)	
		8,89 mg/kg bw/day	DNEL long-term dermal (systemic)	
		185,8 µg/ cm <sup>3</sup>	DNEL acute dermal, short-term (local)	

##### DNEL Consumer

CAS No	Substance name	Value	Code	Remark
8028-48-6	Orange, sweet, extract	7,78 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		4,44 mg/kg bw/day	DNEL long-term dermal (systemic)	

##### PNEC

CAS No	Substance name	Value	Code	Remark
8028-48-6	Orange, sweet, extract	2,1 mg/l	PNEC sewage treatment plant (STP)	
		0,13 mg/kg	PNEC sediment, marine water	
		1,3 mg/kg	PNEC sediment, freshwater	
		0,54 µg/l	PNEC aquatic, marine water	
		5,4 µg/l	PNEC aquatic, freshwater	

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

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short term: filter apparatus, filter A

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**

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**

blue

**Odour**

Orange scent

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>Boiling temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<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				

	Value	Temperature	at	Method	Remark
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>		20 °C			multimiscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				

#### **Oxidising properties**

No information available.

#### **Explosive properties**

The product is not explosive.

#### **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**

No information available.

#### **10.4. Conditions to avoid**

heat

#### **10.5. Incompatible materials**

No information available.

#### 10.6. Hazardous decomposition products

Concerning possible decomposition products see section 5.

#### Thermal decomposition

Remark No decomposition if used as directed.

#### ! Additional information

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

### ! SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	low irritant - no labeling duty			
<b>Skin sensitization</b>	sensitizing			

##### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Mutagenicity</b>				No evidence of genotoxicity.
<b>Reproduction-Toxicity</b>				No evidence of reproductive toxicity.
<b>Carcinogenicity</b>				No evidence of possible carcinogenic effects.

#### 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>Bacteria</b>	22 mg/l (15 min)			

#### 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

##### General regulation

Ecological dates are not available.

Product is not allowed to be discharged into the ground water or aquatic 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. Must not be disposed together with household garbage.

##### ! Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Uncontaminated packaging may be treated as household waste.

Disposal according to official regulations.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

##### 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	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Orange, sweet, extract)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (Orange, sweet, extract)	Environmentally hazardous substance, liquid, n.o.s. (Orange, sweet, extract)
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III

	ADR/RID	IMDG	IATA-DGR
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes
<b>14.6. Special precautions for user</b> No information available.			
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> No information available.			
<b>Land and inland navigation transport ADR/RID</b> Hazard label(s) 9 tunnel restriction code E Classification code M6			
<b>Marine transport IMDG</b> MARINE POLLUTANT			

## ! SECTION 15: Regulatory information

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

#### National regulations

**Water hazard class** 3 following AwSV (Germany)  
highly hazardous to water

**Decree for case of interference/remarks** Quantity limits according to Hazardous Incident Ordinance must be observed.

### 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: 1.4

### 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.

Umweltbundesamt (Wassergefährdungsklasse)

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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**Purytec**



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- |      |   |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H410 | Very toxic to aquatic life with long lasting effects. |