

# Material Safety Data Sheet

According to regulation EG 1907/2006  
 As of 02/2012                      Version 1.1      Product Qualimeter

## 1. Product and Company Information

<b>Product information:</b>	
<b>Tradename:</b>	Qualimeter concentrate
<b>Application of the product:</b>	
<b>Manufacturer/Supplier:</b>	PCT Chemie GmbH 71282 Hemmingen Germany Phone: +49 7150 206790 Fax: +49 7150 20679200
<b>Emergency Contact Phone Number:</b>	Phone: +49 7150 206790

## 2. Possible dangers

### Identification elements:

Globally Harmonized System, EU (GHS)

Pictogram:



Signal word:

Attention

Hazard warning:

H317 May cause allergic skin reactions.

### Safety information (Prevention):

P280c Wear safety gloves.

P260i Do not inhale dust/gas/fog/vapour.

P272 contaminated work wear should be prohibited outside the working place

**Safety information (Reaction):**

P333 + P311 When skin is irritated: call the Poison Center or a doctor.

P303 + P352 Skin or hair contact: Wash thoroughly with plenty of water and soap.

P362 Undress contaminated clothes and wash it before wearing it again.

**Safety information (Disposal):**

P501 Dispose of this material and its container at hazardous or special waste collection point.

According to (EG) Nr. 1272/2008 [CLP]

Hazard determining component(s) for labelling: TRIISOBUTYLPHOSPHATE

According to 67/548/EWG bzw. 1999/45/EG

EU-Guideline 1999/45/EG ('preparation guideline')

Hazard symbol(s)

Xi irritating



R-sentences

R43 Skin sensitisation possible

S-sentences

S37 Wear appropriate safety gloves.

Hazard determining component(s) for labelling: TRIISOBUTYLPHOSPHATE

**Substance/composite classification**

According to (EG) Nr. 1272/2008 [CLP]

Skin Sens. 1

According to 67/548/EWG or 1999/45/EG

Possible dangers:

Skin sensitisation possible

For classifications not fully mentioned in this article see the full text in article 16.

**Miscellaneous dangers**

According to (EG) Nr. 1272/2008 [CLP]

If applicable in this article only miscellaneous dangers that do not need any classifications are mentioned, but that may contribute to any further dangers of the substances/composites.

### 3. Composition of components

#### Composites

**Chemical characterisation:**

Fatty acid condensate, nonionic surfactants

**Dangerous ingredients**

According to (EG) Nr. 1272/2008

Triisobutylphosphate

Volume (W/W):  $\geq 5\%$  -  $\leq 10\%$

CAS-No.: 126-71-6

EG-No.: 204-798-3

Skin Sens. 1

H317

**Dangerous ingredients**

According to 1999/45/EG

Triisobutylphosphate

Volume (W/W):  $\geq 5\%$  -  $\leq 10\%$

CAS-No.: 126-71-6

EG-No.: 204-798-3

Hazard symbol(s): Xi

R-sentences: 43

For the not fully listed classifications in this article including the hazard label, the hazard symbols, the R-sentences and the hazard warnings, the full text is in article No. 16 listed.

### 4. First Aid Measures

**General instructions:**

Remove contaminated clothes.

**After inhaling:**

After inhaling of vapour/aerosol: fresh air, see a doctor

**After skin contact:**

Wash thoroughly with plenty of water and soap.

**After eye contact:**

Rinse out eyes immediately and thoroughly for at least 15 minutes under running water, eye doctor

**After swallowing:**

Rinse out mouth thoroughly and drink lots of water, see a doctor.

**Most important acute and retarded symptoms and effects**

Symptoms: The most important known symptoms and effects are mentioned The most important symptoms and effects are mentioned in the product identification and/or in article 11.

**Instructions for immediate medical attention or special treatment**

Treatment: symptomatic treatment

## 5. Firefighting procedures

**Extinguishing agents:**

Spray water, extinguishing powder, foam, carbon dioxide

**Special dangers caused by the substance/composite**

Unknown.

**Firefighting instructions**

Special protective gear:

Water protective respiratory gear that is independent of recirculating air.

**Further instructions:**

Brandrückstände und kontaminiertes Löschwasser entsprechend behördlichen Vorschriften entsorgen.

## 6. Accidental release measures

**Personal precautions, protective gears and procedures in case of emergency:**

Respiratory protection needed.

**Environmental protection measures:**

Do not empty into drains.

**Procedure of cleaning/absorption:**

For large quantities: Absorb with appropriate, absorbant materials (e.g. sand, sawdust, universalbinder, diatomaceous earth). Dispose the absorbed materials as prescribed.

**Reference to further articles**

Information for limiting and monitoring of the exposition/personal protective gear and for instructions regarding the disposal are written in articles 8 and 13.

## 7. Handling and Storage

**Precautions for safe handling:**

Provide good aeration and deaeration of the storage and the working place.

**Fire and explosion protection:**

No special precautions necessary.

Conditions for a safe storage with regard to intolerances. More information on storage conditions: Keep containers closed and dry; store in a cool location.

**Specific end-applications:**

Observe the instructions according to articles 1 and 7 with relevant identified applications.

## 8. Limiting and monitoring of the exposition/personal protective gears

**Parameters to be monitored**

Components with working place specific limiting values that need to be monitored

No working place specific limiting values are known

**Limiting and monitoring of the exposition:**

Personal protective gear

**Hand protecting grip:**

Appropriate chemical resistant protective gloves (EN 374), also recommended for longer and direct contact: protection index 6, accordingly > 480 minutes permeation time acc. (EN 374): e.g. made of nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), butyl rubber (0,7 mm), and others  
Additionally: Information is based on own checks, literature and on information of glove manufacturers or is derived by analogy of similar substances. Note that the daily operational time of a chemical protective glove in practice may be shorter than the received tests of the permeation time due to many other influencing factors (e.g. temperature).

**Eye protection:**

Protective spectacles with side glasses (frame goggles) (e.g. EN 166)

General precautions and hygiene measures

Do not inhale gases/vapours/aerosols. Observe general precautions when using chemicals.

## 9. Physical and Chemical Characteristics

**Information on the basic physical and chemical characteristics**

Shape: liquid

Colour: yellowish

Smell: product specific

Odour threshold: no data available.

pH-value: approx. 4 (20 g/l, 20 °C) (DIN 19268)

Solidification temperature: approx. -18 °C

Boiling temperature: approx. 240 °C

Flashpoint: > 100 °C (DIN 51758)

Rate of vaporization: no data available.

Lower explosive limit: no data available.

Higher explosive limit: no data available.

Ignition temperature: > 200 °C (DIN 51794)

Vapour pressure: no data available.

Density: approx. 0,99 g/cm<sup>3</sup> (20 °C)

Relativ density: no data available.

Water solubility: emulsifiable

Partition coefficient n-Octanol/Water (log Kow): no data available.

Spontaneous ignitability: not self-igniting

Thermic decomposition: no data available.

Explosion hazard: not explosive

Oxidizing characteristics: not oxidizing

**Other information**

Self-heating capability: not a self-heating substance.

Flow time: approx. 63 s (20 °C) (DIN 53211)

## 10. Stability and Reactivity

**Reactivity**

No dangerous reactions in case information on storage and handling are observed.

**Chemical stability**

Product is stable, in case information on storage and handling are observed.

**Possibility of dangerous reactions**

No dangerous reactions in case information on storage and handling are observed.

**Avoidable conditions**

No avoidable conditions expected.

**Incompatible material**

Avoidable substances:

Strong acids, strong bases, strong oxidants, reactive chemicals.

**Dangerous decomposition products**

Dangerous decomposition products:

None in case information on storage and handling are observed.

**11. Toxicological Information****Information on toxicological effects****Acute toxicity**

Experimental data:

LD50 rat (orally): > 5.000 mg/kg

**Irritability**

Experimental data:

Skin corrosion/irritation rabbit: not irritating. (OECD-guide line 404)

Serious eye damage/irritation rabbit: not irritating. (OECD-guide line 405)

**Airway/Skin sensitisation**

Experimental data:  
Skin sensitising in animal checks.

#### **Germ cell mutagenicity**

Assessment mutagenicity:  
Substance showed no mutagenic characteristics with bacteria.

#### **Carcinogenicity**

Assessment carcinogenicity:  
No carcinogenic data available.

#### **Reproductive toxicity**

Assessment reproductive toxicity:  
No data available.

#### **Developmental toxicity**

Assessment teratogenicity:  
No data available.

## **12. Environmental Information**

#### **Toxicity**

Assessment aquatic toxicity:  
With a high probability not acute dangerous for any aquatic life.  
Fish toxicity:  
LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (DIN 38412 part 15, static)  
Toxic effect always related to normal concentration. LC50 is above solubility.  
Aquatic invertebrates:  
No data available on daphnia.  
Water plants:  
No data available on algae toxicity.

#### **Persistence and Degradability**



Assessment biodegradation and elimination (H<sub>2</sub>O):

Biodegradable. Not easy biodegradable (according to OECD-criteria). Product has not been checked. Statement is based on characteristics that was derived vom ist single components.

Information on elimination:

70 - 80 % BSB of ThSB (28 d) (OECD-guide line 301 F) (aerob, activated sludge, municipall, not adapted)

#### **Bioaccumulative**

Bioaccumulative:

Enrichment in organisms is expectable.

#### **Mobility in the floor (and other compartments if available)**

Assessment transport between environmental compartments:

Substance will not evaporate from the water surface.

A bond with the solid ground phase is expected

#### **Results of the PBT- and vPvB-assessment**

According to (EG) No. 453/2010: The product does not meet the criteria for PBT (persistent/bioaccumulative/toxical) or vPvB (very persistent/very bioaccumulative).

#### **Additional information**

Sum parameters

Chemical oxygen demand (CSB): 6.862 mg/l

An aqueous solution was checked.

### **13. Disposal Information**

#### **Waste treatment method**

Disposal in compliance with local regulations e.g. an appropriate disposal site or an appropriate incineration site.

Uncleaned packing:

Not contaminated packings may be used again.

Not cleanable packings have to be disposed like the substance.

## 14. Shipment Information

### **Land shipment**

ADR Not classified as a hazardous good under transport regulations

RID Not classified as a hazardous good under transport regulations

### **Inland waterways transport**

ADN Not classified as a hazardous good under transport regulations

### **Maritime transport**

IMDG Not classified as a hazardous good under transport regulations

### **Air transport**

IATA/ICAO Not classified as a hazardous good under transport regulations

## 15. Legislation

### **Regulations on safety, health and environmental protection/ specific legislation for the substance or the composite**

Water hazard classification (appendix 4 of the VwVwS (Germany)): (1) slightly hazardous for water.

In case other legislation needs to be applied that is not mentioned in this Safety Data Sheet, you will find them in this appendix.

### **Stoffsicherheitsbeurteilung**

Stoffsicherheitsbeurteilung nicht benötigt

## 16. Miscellaneous Information

Further intended applications should be discussed with the manufacturer.

Exact wording of the classifications, including the hazard identification, hazard symbols, R-sentences and hazard notes, if mentioned in articles 2 or 3:

Xi = irritating

43 = skin sensitisation possible

Skin Sens = skin sensitisation

H317 = may cause allergic skin reactions

The information mentioned above in this Safety Data Sheet is based on our current knowledge and describe the product with regard to safety requirements. The information is in no sense a description of the condition of the goods (product specification). An appointed condition or suitability of the product for a specific purpose may not be derived out of these information of the Safety Data Sheet. Any rights as well as current legislation have to be observed by the receiver of the goods on his own responsibility.