

# Safety data sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 23.02.2017 Supersedes edition of: 12.03.2015

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

### 1.1 Product identifier

Product name: Persan Aktiv

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

Disinfectant cleaner

### 1.3 Details of the supplier of the safety data sheet

Company: Otto Oehme GmbH  
Industriestraße 20  
D-90584 Allersberg Deutschland  
Tel. +49 9176 98050  
info@oehme-lorito.de

### 1.4 Emergency telephone number

GIZ Nord Poisons Centre, Göttingen Tel. +49 (0) 551 19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

*Classification (Regulation (EC) No. 1272/2008)*

Skin Irrit. 2, H315

Eye Dam. 1, H318

Full text of hazard statements: See under section 16.

*Classification (67/548/EEC or 1999/45/EC)*

Xi Irritant R 41

Full text of R-Phrases: See under section 16.

### 2.2 Label elements

*Labelling (Regulation (EC) No. 1272/2008)*

*Hazard pictograms:*



*Signal word:*

Danger

*Hazard statements:*

H315 Causes skin irritation.

H318 Causes serious eye damage.

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*Precautionary statements:*

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

P303 + P361 + P353 IF ON SKIN (or hair): 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 or doctor/physician.

Contains: Hydrogen peroxide ca. 6 bis 7 %, Methanesulfonic acid, Isotridecanol, ethoxylated.

**2.3 Other hazards**

Not known.

**SECTION 3: Composition / information on ingredients**

Solution in water.

*Hazardous components (Regulation (EC) No. 1272/2008)*

<i>Chemical name</i>				<i>Content</i>
<i>CAS-No.</i>	<i>EC-No.</i>	<i>EC-Index-No.</i>	<i>Classification according to EC-Regulation</i>	
Hydrogen peroxide				< 8%
7722-84-1	231-765-0	008-003-00-9	Ox. Liq. 1, H271 Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Corr. 1A, H314	
REACH Registration Number: 01-2119485845-22				
Methanesulfonic acid				< 10%
75-75-2	200-898-6	607-145-00-4	Skin Corr. 1B, H314	
REACH Registration Number: 01-2119491166-34				
Isotridecanol, ethoxylated				< 5%
69011-36-5	500-241-6		Eye Dam. 1, H318 Acute Tox. 4, H302	
REACH Registration Number: 02-2119552461-55				

Full text of hazard statements: See under section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

After inhalation: Fresh air. Call in physician if feeling unwell.

After skin contact: Wash off with plenty of water. Remove contaminated clothing. Consult a physician if skin irritations occur.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist immediately.

After swallowing: Make victim drink plenty of water (two glasses at most), avoid vomiting. Call a physician.

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

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Dizziness, unconsciousness, diarrhoea, nausea, vomiting, headache, convulsions, muscle twitching, insomnia, shock, irritation and corrosion, conjunctivitis.  
Risk of serious damage to eyes.

#### **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*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### *Unsuitable extinguishing media*

For this substance / mixture no limitations of extinguishing agents are given.

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

Not Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3 Advice for firefighters**

##### *Special protective equipment for firefighters*

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

##### *Further information*

Prevent fire-fighting water from entering surface water or groundwater.

### **SECTION 6: Accidental release measures**

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

Caution: Risk of slipping.

Do not inhale vapours/aerosols. Avoid substance contact. Use personal protective equipment as required, see section 8.2. Ensure supply of fresh air in enclosed rooms. In case of inadequate ventilation wear respiratory protection.

#### **6.2 Environmental precautions**

Do not allow to enter sewerage system.

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

Take up with incombustible liquid-absorbent material. Forward for disposal. Clean up affected area.

#### **6.4 Reference to other sections**

Indications about waste treatment see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### *Notes for safe handling*

Ensure adequate ventilation. Avoid contact with skin and eyes. Do not inhale vapours/aerosols. Avoid generation of vapours/aerosols.

#### *Notes for prevention of fire and explosion*

Not required.

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

Store cool above 5 °C. Keep away from sun and heat.

Tightly closed in a well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### *Hydrogen peroxide*

EH40 WEL

Name	Hydrogen peroxide
Short term exposure limit (STEL)	2 ppm 2.8 mg/m <sup>3</sup>
Time weighted average (TWA)	1 ppm 1.4 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### *Individual protection measures*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

#### **Eye / face protection:**

Tightly fitting safety goggles (EN 166).

#### **Hand protection:**

Material: Nitrile rubber.

Thickness: 0.1 mm

Breakthrough time: > 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374, e.g. Franz Mensch Nitrile Safe Premium.

This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

#### **Respiratory protection:**

Required when vapours/aerosols are generated. Filter A (EN 14387).

#### *Hygiene measures*

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Change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form:		liquid
Colour:		colourless
Odour:		characteristic
pH value		1
Melting point		not specified
Boiling point		not specified
Ignition temperature		not applicable
Flash point		not applicable
Explosion limits	lower upper	not applicable not applicable
Density (23 °C)		~ 1.0 g/cm <sup>3</sup>
Solubility in water		soluble

### 9.2 Other information

None.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3.

### 10.2 Chemical stability

Heat sensitive, sensitivity to light.

### 10.3 Possibility of hazardous reactions

Risk of explosion with:

Risk of ignition or formation of inflammable gases or vapours with:

Hydrazine and derivatives, hydrides, combustible substances, ether, anhydrides, oxidants, organics, peroxi compounds, permanganates, organic solvents, organic nitro compounds, brass, alkali metals, alkaline salts, alkaline earth metals, metals, metal oxides, metal salts, non-metals, non-metal oxide, aldehydes, alcohols, amines, ammonia, acids, strong alkalis, acetaldehyde, acetone, activated charcoal, anilines, lead, powdered metals, acetic acid, acetic anhydride, potassium, iodide, potassium permanganate, methanol, sodium, oils, phosphorus, phosphorus oxides, conc. sulfuric acid, heavy metals, silver powder, alkali hydroxides, vinyl acetate.

Exothermic reaction with:

Alkali hydroxides, metals, metal salts, nitric acid, zinc oxide, phenol.

### 10.4 Conditions to avoid

Heating.

### 10.5 Incompatible materials

Lead, bronze, iron, copper, brass, silver.

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## 10.6 Hazardous decomposition products

See section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### *Acute oral toxicity*

Absorption. Symptoms: Mucosal irritation in mouth and throat, oesophagus and gastrointestinal tract.

LD<sub>50</sub> rat: 1193-1270 mg/kg (IUCLID; Hydrogen peroxide 35 %)

LD<sub>50</sub> rat: 200 mg/kg (RTECS; Methanesulfonic acid)

Symptoms: If ingested, severe burns of the mouth and throat, as well as danger of perforation of the oesophagus and the stomach.

LD<sub>50</sub> rat: 500 - 2000 mg/kg (OECD 423; Isotridecanol, ethoxylated)

#### *Acute dermal toxicity*

LD<sub>50</sub> rabbit : >2000 mg/kg (US-EPA; Hydrogen peroxide 35 %)

LD<sub>50</sub> rabbit: 200 – 2000 mg/kg (IUCLID; Methanesulfonic acid)

#### *Acute inhalation toxicity*

Symptoms: Mucosal irritation, cough, shortness of breath. Possible consequences: Damage to the respiratory tract.

Acute toxicity estimate ATE: 31.34 mg/L vapour (Calculation method; Hydrogen peroxide 35 %)

LC<sub>50</sub> rat: > 0.17 mg/l /4 h (US-EPA; Hydrogen peroxide 50 %)

Symptoms: Shortness of breath, cough, burns of mucous membranes. After a latency period: Lung oedema.

#### *Skin irritation*

When exposed for a long time: Causes skin burns. Mixture causes skin irritation. (external MSDS; Hydrogen peroxide)

Causes burns (external MSDS; Methanesulfonic acid).

Rabbit: No irritation (OECD 404; Isotridecanol, ethoxylated).

#### *Eye irritation*

Conjunctivitis. Mixture causes serious eye damage.

Rabbit: Causes burns. (IUCLID; Methanesulfonic acid).

Causes serious eye damage. Risk of blindness!

Rabbit: Eye irritation (OECD 405; Isotridecanol, ethoxylated).

Causes serious eye irritation.

#### *Sensitisation*

Sensitisation test: Guinea pig: Negative (external MSDS; Hydrogen peroxide).

Sensitisation test (Bühler-test Guinea pig): Negative (external MSDS; Methanesulfonic acid).

#### *Genotoxicity in vivo*

Mutagenicity (mammal cell test, mouse): Micronucleus: Negative (OECD 474; Hydrogen peroxide).

#### *Genotoxicity in vitro*

Mutagenicity (mammal cell test): Micronucleus: Negative (OECD 474; Methanesulfonic acid).

Ames test: Salmonella typhimurium: Negative (OECD 471; Methanesulfonic acid).

#### *Specific target organ toxicity – single exposure*

Target organs: Respiratory system. Mixture may cause respiratory irritation.

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#### *Specific target organ toxicity – repeated exposure*

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### *Aspiration hazard*

No aspiration toxicity classification.

### **11.2 Further information**

#### Systemic effects:

Headache, dizziness, nausea, vomiting, diarrhoea, insomnia, tremors, convulsions, unconsciousness, shock.

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

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### *Toxicity to fish*

Pimephales promelas LC<sub>50</sub>: 16.4 mg/l /96 h (US-EPA; Hydrogen peroxide)

Pimephales promelas NOEC: 5 mg/l /96 h (US-EPA; Hydrogen peroxide)

Oncorhynchus mykiss LC<sub>50</sub>: 10-100 mg/l /96 h (OECD 203; Methanesulfonic acid)

Leuciscus idus LC<sub>50</sub>: 1-10 mg/l /96 h (external MSDS; Isotridecanol, ethoxylated)

#### *Toxicity to daphnia an other aquatic invertebrates*

Daphnia pulex: EC<sub>50</sub>: 2.4 mg/l /48 h (US-EPA; Hydrogen peroxide)

Daphnia pulex: NOEC: 1 mg/l /48 h (US-EPA; Hydrogen peroxide)

Daphnia magna EC<sub>50</sub>: 1.7 mg/l /24 h (IUCLID; Methanesulfonic acid)

Aaquatic invertebrates: Selenastrum capricornutum EC<sub>50</sub>: 10-100 mg/l /48 h (OECD 202; Methanesulfonic acid)

Aaquatic invertebrates: EC<sub>50</sub>: 1-10 mg/l /48 h (external MSDS; Isotridecanol, ethoxylated)

#### *Toxicity to algae*

Pseudokirchneriella subcapitata IC<sub>50</sub>: 5.7 mg/L / 72 h (ECOTOX Database; Hydrogen peroxide)

Skeletonema costatum NOEC: 0.63 mg/L / 72 h (external MSDS; Hydrogen peroxide)

EC<sub>50</sub>: 10-100 mg/l /72 h (OECD 201; Methanesulfonic acid)

EC<sub>50</sub>: 1-10 mg/l /72 h (external MSDS; Isotridecanol, ethoxylated)

#### *Toxicity to bacteria*

Activated sludge EC<sub>50</sub>: 466 mg/l /30 min (OECD 209; Hydrogen peroxide)

Activated sludge EC<sub>50</sub>: > 1000 mg/l /3 h (OECD 209; Hydrogen peroxide)

Activated sludge: EC<sub>10</sub>: >10000 mg/l /17 h (DIN 38412 (8); Isotridecanol, ethoxylated)

### **12.2 Persistence and degradability**

#### *Biodegradability*

The surfactants contained in this preparation complies with the Biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Biodegradation: > 99 % / 0.5 h (ECHA; Hydrogen peroxide).

Readily biodegradable (Hydrogen peroxide).

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Biodegradation: >99 % / 28 d (external MSDS; Methanesulfonic acid).  
Readily biodegradable (Methanesulfonic acid).  
Biodegradation: >60 % / 28 d (OECD 301B; Isotridecanol, ethoxylated)  
Readily biodegradable (Isotridecanol, ethoxylated)

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol / water:  $\log P_{OW}$ : -2.38 (external MSDS; calculated; Methanesulfonic acid).

No bioaccumulation is to be expected (Methanesulfonic acid).

No bioaccumulation is to be expected (external MSDS; Isotridecanol, ethoxylated).

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

### 12.6 Other adverse effects

*Additional ecological information:*

Biological effects: Forms corrosive mixtures with water even if deluted.

Do not allow to enter waters, waste water, or soil!

*Further information on ecology*

COD: 2.1 g/g (external MSDS; Isotridecanol, ethoxylated).

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

*Product:*

Chemicals must be disposed of in compliance with the respective national regulations.

Code of the waste  
200129\*  
070601\*

Name according to directive 2000/532/EC:  
detergents containing dangerous substances.  
aqueous washing liquids and mother liquors.

*Packaging:*

Product packaging must be disposed of in compliance with the country-specific regulations or must be to a packaging return system.

Code of the waste  
200139

Name according to directive 2000/532/EC:  
plastics.

## SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations / legislation specific for the



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**substance or mixture**

*EU regulations*

Ingredients according to Regulation (EC) on detergents No. 648/2004:

Non-ionic surfactants: Less than 5 %

Disinfectants.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information**

*Reason for alteration:*

SECTION 2: Hazards identification  
SECTION 3: Composition / information on ingredients  
SECTION 6: Accidental release measures  
SECTION 8: Exposure controls/personal protection  
Control parameters  
Exposure controls: Hand protection  
SECTION 12: Ecological information

*Full text of hazard statements referred to under sections 2 and 3:*

H271 May cause fire or explosion; strong oxidiser.  
H302 Harmful if swallowed.  
H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

*The information contained herein is based on the present 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.*