

# Safety data sheet

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

Date of issue: 21.01.2021      Supersedes edition of: 23.02.2017

## 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.

### 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.

*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.

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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, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	

REACH Registration Number: 01-2119485845-22

Specific Conc. Limits:

- Eye Dam. 1: 8 % ≤ C < 50 %
- Ox. Liq. 2: 50 % ≤ C < 70 %
- Skin Irrit. 2: 35 % ≤ C < 50 %
- Skin Corr. 1A: C ≥ 70 %
- STOT SE 3: C ≥ 35 %
- Eye Irrit. 2: 5 % ≤ C < 8 %
- Ox. Liq. 1: C ≥ 70 %
- Aquatic Chronic 3: C ≥ 63 %
- Skin Corr. 1B: 50 % ≤ C < 70 %

Methanesulfonic acid				< 10 %
75-75-2	200-898-6	607-145-00-4	Met. Corr. 1, H290 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	

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

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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

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.

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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 get undiluted into 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.

## 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.

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**Eye / face protection:**

Eye protection (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*

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
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**

Violent reactions possible with:

Strong alkalis, oxidizing agents, strong reducing agents, amines, hydrogen fluoride, acids.

#### 10.4 Conditions to avoid

Heating.

#### 10.5 Incompatible materials

Lead, bronze, iron, copper, brass, silver, metals, metal alloys, mild steel, corrosive substances, halogenes, bases, acids, reactive chemicals.

#### 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: 649 mg/kg (OECD 401; 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: > 300 – 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: > 1000 – 2000 mg/kg (OECD 402; Methanesulfonic acid)

ATE: 1571 mg/kg (OECD 402; Methanesulfonic acid)

LD<sub>50</sub> rabbit: > 2000 mg/kg (OECD 402; Isotridecanol, ethoxylated)

##### *Acute inhalation toxicity*

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

ATE: > 20 mg/L vapour (external MSDS; Hydrogen peroxide 35 %)

LC<sub>50</sub> rat: 1.3 mg/L /6 h (external MSDS; Methanesulfonic acid)

Symptoms: Mucosal irritations, cough, shortness of breath. Possible damages: Damage of respiratory tract, lung oedema, Symptoms may be delayed.

##### *Skin irritation*

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: Causes serious eye damage (external MSDS; Isotridecanol, ethoxylated).

##### *Sensitisation*

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

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

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***Genotoxicity in vivo***

Mutagenicity (mammal cell test, mouse): Micronucleus: Negative (OECD 474; Hydrogen peroxide).  
In vivo micronucleus test, mouse, male and female, oral, bone marrow: Negative (OECD 474; Methanesulfonic acid).

***Genotoxicity in vitro***

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

***Mutagenicity***

In vitro mammalian cell gene mutation test: Negative (OECD 476; Methanesulfonic acid).  
Bacteria: No evidence of genotoxic potential (external MSDS; Methanesulfonic acid).  
Mammal cell cultures: No evidence of mutagen potential (Methanesulfonic acid).  
Mammals: No evidence of mutagen potential (external MSDS; Methanesulfonic acid).

***Carcinogenicity***

Did not show carcinogenic effects in animal experiments (OECD 453; Methanesulfonic acid).

***Reproductive toxicity***

No impairment of reproductive performance in animal experiments (external MSDS; Methanesulfonic acid).

***Teratogenicity***

Did not show teratogenic effects in animal experiments (external MSDS; Methanesulfonic acid).

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

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

***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)  
Cyprinodon variegatus LC<sub>50</sub>: > 10000 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 and other aquatic invertebrates***

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

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Daphnia pulex: NOEC: 1 mg/l /48 h (US-EPA; Hydrogen peroxide)  
Daphnia magna EC<sub>50</sub>: > 10 – 100 /48 h (OECD 202; Methanesulfonic acid)  
Aquatic 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)  
Selenastrum capricornutum 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>20</sub>: > 1000 mg/l / 30 min (OECD 209; Methanesulfonic acid)  
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).  
Biodegradation: > 70 % /28 d (OECD 301 A; 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<sub>ow</sub>: -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 diluted.  
Do not allow to enter waters, waste water, or soil!

#### *Further information on ecology*

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



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**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.

**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 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 3: Composition / information on ingredients  
SECTION 6: Accidental release measures  
SECTION 8: Exposure controls/personal protection  
Exposure controls  
SECTION 10: Stability and reactivity  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 13: Disposal considerations  
SECTION 14: Transport information

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

H271 May cause fire or explosion; strong oxidizer.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.

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H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

*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.*