

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

#### 1.1 Product identifier

Trade name: **PERADES 150**

1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

Application of the substance / the mixture Disinfectant for food processing industries

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

Manufacturer/Supplier:

Tensio  
Doornpark 36  
9120 Beveren  
Belgium  
Tel.: +32 3 755 48 74  
Fax.: +32 3 755 51 55  
e-mail: info@tensio.be

Further information obtainable from: Product Safety Departement: SDS@tensio.be

1.4 Emergency telephone number: +44 700 393 7989

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Org. Perox. F H242 Heating may cause a fire.



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 3 H335 May cause respiratory irritation.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms GHS02, GHS05, GHS07, GHS09

Signal word Danger

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· **Hazard-determining components of labelling:**

hydrogen peroxide solution  
peracetic acid  
acetic acid

· **Hazard statements**

H242 Heating may cause a fire.  
H290 May be corrosive to metals.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
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 [or 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.  
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

· **Additional information:**

EUH071 Corrosive to the respiratory tract.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7722-84-1 EINECS: 231-765-0 Reg.nr.: 01-2119485845-22-XXXX	hydrogen peroxide solution ⚠ Ox. Liq. 1, H271; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	10–25%
CAS: 64-19-7 EINECS: 200-580-7	acetic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H312	10–25%
CAS: 79-21-0 EINECS: 201-186-8	peracetic acid ⚠ Flam. Liq. 3, H226; Org. Perox. D, H242; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10–25%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Personal protection for the First Aider.

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- Do not leave affected persons unattended.  
Take affected persons out of danger area and lay down.  
Keep warm, position comfortably and cover well.  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*
- **After inhalation:**  
*Supply fresh air.  
Seek medical treatment in case of complaints.  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.*
  - **After skin contact:**  
*If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.*
  - **After eye contact:**  
*Protect unharmed eye.  
Seek immediate medical advice.  
Rinse opened eye for several minutes under running water. Then consult a doctor.*
  - **After swallowing:**  
*Rinse out mouth and then drink plenty of water.  
Call for a doctor immediately.  
Drink plenty of water and provide fresh air. Call for a doctor immediately.*
  - **4.2 Most important symptoms and effects, both acute and delayed**  
*Unconsciousness  
Coughing*
  - **Hazards** *Danger of pulmonary oedema.*
  - **4.3 Indication of any immediate medical attention and special treatment needed**  
*If swallowed or in case of vomiting, danger of entering the lungs.*

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **5.2 Special hazards arising from the substance or mixture**  
*In case of fire, the following can be released:  
Oxygen (O<sub>2</sub>)*
- **5.3 Advice for firefighters**
- **Protective equipment:**  
*Wear fully protective suit.  
Mouth respiratory protective device.*
- **Additional information**  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Cool endangered receptacles with water spray.*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Keep away from ignition sources.  
Keep people at a distance and stay on the windward side.  
Wear protective clothing.  
Wear protective equipment. Keep unprotected persons away.*

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- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dilute with plenty of water.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Do not seal receptacles gas-tight.  
Do not refill residue into storage receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Provide ventilation for receptacles.  
Store in a cool location.
- **Information about storage in one common storage facility:**  
Store away from reducing agents.  
Store away from metals.  
Store away from flammable substances.
- **Further information about storage conditions:**  
Store under lock and key and with access restricted to technical experts or their assistants only.  
Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7722-84-1 hydrogen peroxide solution (10–25%)**

WEL (Great Britain)	Short-term value: 2.8 mg/m <sup>3</sup> , 2 ppm Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm
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**CAS: 64-19-7 acetic acid (10–25%)**

IOELV (EU)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
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- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present.

Short term filter device:

Filter ABEK-P3

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Chloroprene rubber, CR

Recommended thickness of the material:  $\geq 0.65$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

For the mixture of chemicals mentioned in header 3 the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

<http://industrialcatalogue.ansell.eu/en/chemicalagents>

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Chloroprene rubber, CR

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

- **Eye protection:**

Face protection

Safety glasses



Tightly sealed goggles

- **Body protection:**

Use protective suit.

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Boots  
Acid resistant protective clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Transparent
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value at 20 °C: -0.6 (medium : product as is)

##### · Change in condition

Melting point/freezing point:	-50 °C
Initial boiling point and boiling range:	>60 °C

· Flash point: > 60 °C (ISO2719)

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 485 °C (DIN 51 794)

· Decomposition temperature (SADT): > 60 °C

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

##### · Explosion limits:

Lower:	4 Vol %
Upper:	17 Vol %

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.15 g/cm<sup>3</sup>

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

##### · Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

##### · Solvent content:

Organic solvents: 17.5 %

· 9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Reacts with reducing agents.  
Reacts with flammable substances.  
Reacts with certain metals.  
Reacts with light metals.  
Reacts with organic substances.  
Acts as an oxidising agent on organic materials such as wood, paper and fats.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Oxygen

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed, in contact with skin or if inhaled.

- **LD/LC50 values relevant for classification:**

#### **CAS: 7722-84-1 hydrogen peroxide solution**

Oral	LD50	1,190 mg/kg (rat)
Dermal	LD50	>6,500 mg/kg (rabbit)
Inhalative	LC50/ 4h	2 mg/l (rat)

#### **CAS: 64-19-7 acetic acid**

Oral	LD50	3,310 mg/kg (rat)
Dermal	LD50	1,060 mg/kg (rabbit)

#### **CAS: 79-21-0 peracetic acid**

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/ 4h	11 mg/l (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

**CAS: 79-21-0 peracetic acid**

LC50/ 96h 0.9–2 mg/l (Oncorhynchus mykiss)

EC50/ 48h 0.5–1 mg/l (Daphnia magna)

#### · 12.2 Persistence and degradability

OECD 301 E:

Easily biodegradable

#### · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.  
log Pow: -0.52

#### · 12.4 Mobility in soil No further relevant information available.

#### · Additional ecological information:

##### · General notes:

The product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

The surfactants ingredients of the product are biodegradable according to the requirements of regulation 648/2004/EC.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

#### · 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **ADR, IMDG, IATA**

UN3109

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> <li>· <b>Class</b></li> <li>· <b>Label</b></li> <li>· <b>Class</b></li> <li>· <b>Label</b></li> <li>· <b>Class</b></li> <li>· <b>Label</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (peracetic acid), ENVIRONMENTALLY HAZARDOUS</p> <p>ORGANIC PEROXIDE TYPE F, LIQUID (peracetic acid)</p> <p>5.2 Organic peroxides.</p> <p>5.2+8</p> <p>5.2 Organic peroxides.</p> <p>5.2/8</p> <p>5.2 Organic peroxides.</p> <p>5.2 (8)</p> <p>I</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	<p>No</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul>	<p>Warning: Organic peroxides.</p> <p>539</p> <p>F-J,S-R</p> <p>D</p> <p>SW1 Protected from sources of heat.</p> <p>SG35 Stow "separated from" acids.</p> <p>SG36 Stow "separated from" alkalis.</p> <p>SG72 See 7.2.6.3.2.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>Not applicable.</p> <p>125 ml</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p> <p>125 ml</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (PERACETIC ACID), 5.2 (8), I, ENVIRONMENTALLY HAZARDOUS</p>

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS05, GHS07, GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
hydrogen peroxide solution  
peracetic acid  
acetic acid

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· **Hazard statements**

- H242 Heating may cause a fire.  
 H290 May be corrosive to metals.  
 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation.  
 H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 Avoid release to the environment.  
 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 [or 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.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations:**

Class	Share in %
II	17.5

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H226 Flammable liquid and vapour.  
 H242 Heating may cause a fire.  
 H271 May cause fire or explosion; strong oxidiser.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H332 Harmful if inhaled.  
 H400 Very toxic to aquatic life.

· **Contact:**

Wim Lampaert  
 MSc Chemistry

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Ox. Liq. 1: Oxidizing liquids – Category 1

Org. Perox. D: Organic peroxides – Type C/D

Org. Perox. F: Organic peroxides – Type E/F

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**\* Data compared to the previous version altered.**

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