

**P3-oxonia active****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : P3-oxonia active  
Product code : 106965E  
Use of the Substance/Mixture : Biocide  
Substance type: : Mixture

**For professional users only.**

Product dilution information : No dilution information provided.

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

Identified uses : Disinfection product. Semi-automatic process  
Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Ecolab Ltd.  
PO Box 11; Winnington Avenue  
Northwich, Cheshire, United Kingdom CW8 4DX  
+ 44 (0)1606 74488  
ccs@ecolab.com

**1.4 Emergency telephone number**

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:  
Northwich: +44 (0)1606 74488  
Healthcare:  
Leeds: +44 (0)113 232 2480  
Swansea: +44 (0)1252 717616

Poison Information Centre telephone number : Not Available

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**Section: 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Oxidizing liquids , Category 2	H272
Acute toxicity , Category 4	H302
Skin corrosion , Category 1A	H314
Specific target organ toxicity - single exposure , Category 3, Respiratory system	H335

**P3-oxonia active**

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

C; CORROSIVE

R35  
R07  
R22  
R37

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements

: **Prevention:**  
P210 Keep away from heat.  
P220a Keep/Store away from clothing and other combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ 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.

Hazardous components which must be listed on the label:  
Hydrogen peroxide  
Peroxyacetic acid

**2.3 Other hazards**

None known.

**Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

**Hazardous components**

**P3-oxonia active**

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
Hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22	C-O-Xn; R35- R05-R08- R20/22	Oxidizing liquids Category 1; H271 Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Skin corrosion Category 1A; H314	>= 25 - < 30
Acetic acid	64-19-7 200-580-7 01-2119475328-30	C; R10-R35	Flammable liquids Category 3; H226 Skin corrosion Category 1A; H314	>= 5 - < 10
Peroxyacetic acid	79-21-0 201-186-8	Xn-C-N-O; R20-R22- R21-R35- R10-R07-R50	Flammable liquids Category 3; H226 Organic peroxides Type F; H242 Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Acute toxicity Category 4; H312 Skin corrosion Category 1A; H314 Acute aquatic toxicity Category 1; H400	>= 2.5 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section: 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

**P3-oxonia active**

**4.3 Indication of immediate medical attention and special treatment needed**

Treatment : Treat symptomatically.

**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 : None known.

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

Specific hazards during firefighting. : Oxidizer. Contact with other material may cause fire.

Hazardous combustion products : Carbon oxides

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Use personal protective equipment

Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

**Section: 6. ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel : Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**6.2 Environmental precautions**

Environmental precautions : Do not allow contact with soil, surface or ground water.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible

**P3-oxonia active**

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.  
 For personal protection see section 8.  
 See Section 13 for additional waste treatment information.

**Section: 7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

- Advice on safe handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

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

- Requirements for storage areas and containers : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : -20 °C to 30 °C

**7.3 Specific end uses**

- Specific use(s) : Disinfection product. Semi-automatic process

**Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Occupational Exposure Limits**

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
7722-84-1	Hydrogen peroxide	TWA	1 ppm 1.4 mg/m3	2005-04-06	UKCOSSTD
		STEL	2 ppm 2.8 mg/m3	2005-04-06	UKCOSSTD

**P3-oxonia active**

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DNEL

peracetic acid	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0.6 mg/m3
		End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 0.6 mg/m3
		End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.6 mg/m3
		End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0.6 mg/m3
		End Use: Workers Exposure routes: Skin contact Potential health effects: Acute local effects Value: 0.12
		End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0.6 mg/m3
		End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 0.6 mg/m3
		End Use: Consumer use Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.6 mg/m3
		End Use: Consumer use Exposure routes: Inhalation Potential health effects: Acute local effects Value: 0.3 mg/m3

PNEC

peracetic acid	:	Fresh water Value: 0.000224 mg/l
		Fresh water sediment Value: 0.00018 mg/kg
		Water Value: 0.051 mg/l

**P3-oxonia active**

	Soil Value: 0.32 mg/kg
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**8.2 Exposure controls**

**Appropriate engineering controls**

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Individual protection measures**

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles  
Face-shield

Hand protection (EN 374) : Wear the following personal protective equipment:  
Nitrile rubber  
butyl-rubber  
Impervious gloves  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection (EN 14605) : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection (EN 143, 14387) : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental exposure controls**

General advice : Consider the provision of containment around storage vessels.

**Section: 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance : liquid  
 Colour : Colourless  
 Odour : pungent  
 pH : 0.5 - 1.5, 100 %  
 Flash point : 100 °C closed cup, Does not sustain combustion.  
 Odour Threshold : no data available  
 Melting point/freezing point : no data available  
 Initial boiling point and boiling range : no data available  
 Evaporation rate : no data available  
 Flammability (solid, gas) : no data available

**P3-oxonia active**

Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.11 - 1.13
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: Yes

**9.2 Other information**

no data available

**Section: 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible materials**

Metals  
Bases  
Organic materials

**10.6 Hazardous decomposition products**

Carbon oxides

**Section: 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Information on likely routes of : Inhalation, Eye contact, Skin contact

**P3-oxonia active**

exposure

**Toxicity**

- Acute oral toxicity : Acute toxicity estimate : 1,733 mg/kg
- Acute inhalation toxicity : 4 h Acute toxicity estimate : > 20 mg/l
- Acute dermal toxicity : Acute toxicity estimate : > 2,000 mg/kg
- Skin corrosion/irritation : There is no data available for this product.
- Serious eye damage/eye irritation : There is no data available for this product.
- Respiratory or skin sensitization : There is no data available for this product.
- Carcinogenicity : There is no data available for this product.
- Reproductive effects : There is no data available for this product.
- Germ cell mutagenicity : There is no data available for this product.
- Teratogenicity : There is no data available for this product.
- STOT - single exposure : There is no data available for this product.
- STOT - repeated exposure : There is no data available for this product.
- Aspiration toxicity : There is no data available for this product.

**Components**

- Acute oral toxicity : Hydrogen peroxide  
LD50 rat: 486 mg/kg
- Acetic acid  
LD50 rat: 3,310 mg/kg
- Peroxyacetic acid  
LD50 rat: 1,634 mg/kg
- Acute inhalation toxicity : Acetic acid  
4 h LC50 rat: > 40 mg/l
- Peroxyacetic acid  
4 h LC50 rat: 5.175 mg/l
- Acute dermal toxicity : Acetic acid  
LD50 rabbit: 1,060 mg/kg
- Peroxyacetic acid  
LD50 rat: 1,012 mg/kg

**Potential Health Effects**

**P3-oxonia active**

- Eyes : Causes serious eye damage.
- Skin : Causes severe skin burns.
- Ingestion : Harmful if swallowed. Causes digestive tract burns.
- Inhalation : May cause respiratory tract irritation. May cause nose, throat, and lung irritation.
- Chronic Exposure : May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Suspected of causing genetic defects.

**Experience with human exposure**

- Eye contact : Redness, Pain, Corrosion
- Skin contact : Redness, Pain, Corrosion
- Ingestion : Corrosion, Abdominal pain
- Inhalation : Respiratory irritation, Cough, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Section: 12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

- Environmental Effects : This product has no known ecotoxicological effects.

**Product**

- Toxicity to fish : no data available
- Toxicity to daphnia and other aquatic invertebrates. : no data available
- Toxicity to algae : no data available

**Components**

- Toxicity to fish : Acetic acid  
96 h LC50: 75 mg/l
- Peroxyacetic acid  
96 h LC50: 0.8 mg/l

**Components**

- Toxicity to daphnia and other aquatic invertebrates. : Peroxyacetic acid  
48 h EC50: 0.73 mg/l

**Components**

- Toxicity to algae : Hydrogen peroxide  
72 h EC50: 1.38 mg/l
- Peroxyacetic acid  
72 h EC50: 0.7 mg/l

**P3-oxonia active**

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

**Product**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

no data available

**Section: 13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

European Waste Catalogue : 200114\* - acids

**Section: 14. TRANSPORT INFORMATION**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (ADR/ADN/RID)**

14.1 UN number : 3149  
14.2 UN proper shipping name : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
14.3 Transport hazard class(es) : 5.1 (8)  
14.4 Packing group : II  
14.5 Environmental hazards : No  
14.6 Special precautions for : None

**P3-oxonia active**

user

**Air transport (IATA)**

14.1 UN number : 3149  
14.2 UN proper shipping name : Hydrogen peroxide and peroxyacetic acid mixture stabilized  
14.3 Transport hazard class(es) : 5.1 (8)  
14.4 Packing group : II  
14.5 Environmental hazards : No  
14.6 Special precautions for user : None

**Sea Transport (IMDG/IMO)**

14.1 UN number : 3149  
14.2 UN proper shipping name : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED  
14.3 Transport hazard class(es) : 5.1 (8)  
14.4 Packing group : II  
14.5 Environmental hazards : No  
14.6 Special precautions for user : None  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

**Section: 15. REGULATORY INFORMATION**

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

**National Regulations**

**Take note of Dir 94/33/EC on the protection of young people at work.**

Other regulations : The Chemicals (Hazard Information and Packaging for Supply) Regulations.  
The Control of Substances Hazardous to Health Regulations.  
Health and Safety at Work Act.

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

**Section: 16. OTHER INFORMATION**

**Full text of R-Phrases**

R05 Heating may cause an explosion.  
R07 May cause fire.  
R08 Contact with combustible material may cause fire.  
R10 Flammable.  
R20 Harmful by inhalation.  
R20/22 Harmful by inhalation and if swallowed.  
R21 Harmful in contact with skin.  
R22 Harmful if swallowed.  
R35 Causes severe burns.  
R50 Very toxic to aquatic organisms.

**P3-oxonia active****Full text of H-Statements**

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.

**Full text of other abbreviations**

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**ANNEX: EXPOSURE SCENARIOS****DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	Acetic acid	64-19-7	200-580-7
Inhalation	Acetic acid	64-19-7	200-580-7
Dermal	Acetic acid	64-19-7	200-580-7
Eyes	Acetic acid	64-19-7	200-580-7
aquatic environment	Peroxyacetic acid	79-21-0	201-186-8

**Physical properties DPD+ Substances:**

Substance	Vapour pressure	Water solubility	POW	Molar Mass
Acetic acid	2.079 kPa			60.06 g/mol
Peroxyacetic acid	0.217 Pa			76.0 g/mol
Peroxyacetic acid				0.000224 mg/l

**P3-oxonia active**

Peroxyacetic acid				
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To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

[www.ecetoc.org/tra](http://www.ecetoc.org/tra)

**Short title of Exposure Scenario** : **Disinfection product. Semi-automatic process**

**Use descriptors**

Main User Groups : Industrial uses: Uses of substances as such or in preparations at industrial sites

Sectors of end-use : **SU3:** Industrial uses: Uses of substances as such or in preparations at industrial sites

Process categories : **PROC4:** Use in batch and other process (synthesis) where opportunity for exposure arises  
**PROC8b:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Product categories : **PC35:** Washing and cleaning products (including solvent based products)

Environmental Release Categories : **ERC4:** Industrial use of processing aids in processes and products, not becoming part of articles