

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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 : Biocide

Substance/Mixture

Substance type: : Mixture

For professional users only.

Product dilution information : 3.0 %

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

Identified uses : Process cleaner. Cleaning In place (CIP) process

Disinfection product. Semi-automatic process

Surface disinfectant. Spray and rinse manual 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 : +441618841235

number +32-(0)3-575-5555 Trans-European

Poison Information Centre

telephone number

: For medical professionals only: 0344 892 0111

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD

Oxidizing liquids, Category 2 H272

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Corrosive to metals, Category 1 Acute toxicity, Category 4 Skin corrosion, Category 1	H290 H302 H314
Serious eye damage, Category 1	H318
Acute toxicity, Category 4	H332
Specific target organ toxicity - single exposure, Category 3,	H335
Respiratory system Chronic aquatic toxicity, Category 1	H410

Product AT USE DILUTION

Chronic aquatic toxicity, Category 3

H412

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD

Hazard pictograms









Signal Word : Danger

Hazard Statements : H272 May intensify fire; oxidiser.

H290 May be corrosive to metals. H302 + H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting

effects.

Supplemental Hazard

Statements

Precautionary Statements

: EUH071

: Prevention:

O71 Corrosive to the respiratory tract.

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P220 Keep away from clothing and other

combustible materials.

Do not breathe vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P260

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.

P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Hydrogen peroxide

Acetic acid

Peracetic acid

Product AT USE DILUTION

Hazard Statements : H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statements : **Prevention:**

P273 Avoid release to the environment.

2.3 Other hazards

Product AS SOLD

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

Product AT USE DILUTION

Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product AS SOLD Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22	Nota B Oxidizing liquids Category 1; H271 Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Skin corrosion Sub-category 1A; H314 Serious eye damage Category 1; H318 Specific target organ toxicity - single exposure Category 3; H335 Chronic aquatic toxicity Category 3; H412 Oxidizing liquids Category 1 H271 >= 70 % Oxidizing liquids Category 2 H272 50 - < 70 % Skin corrosion Category 1A H314 >= 70 % Skin corrosion Category 1B H314 50 - < 70 % Skin irritation Category 2 H315 35 - < 50 % Serious eye damage Category 1 H318 8 - < 50 % Eye irritation Category 2 H319 5 - < 8 % Specific target organ toxicity - single exposure Category 3 H335 >= 35 %	>= 25 - < 30
Acetic acid	64-19-7 200-580-7 01-2119475328-30	Nota B Flammable liquids Category 3; H226 Skin corrosion Sub-category 1A; H314 Serious eye damage Category 1; H318 Skin corrosion Category 1A H314 >= 90 % Skin corrosion Category 1B H314 25 - < 90 % Skin irritation Category 2 H315 10 - < 25 % Eye irritation Category 2 H319 10 - < 25 %	>= 5 - < 10

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Peracetic acid	79-21-0	Flammable liquids Category 3; H226	>= 3 - < 5
	201-186-8	Organic peroxides Type D; H242	
	01-2119531330-56	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	
		Specific target organ toxicity - single	
		exposure Category 3; H335	
		Chronic aquatic toxicity Category 1; H410	
		omorno aquano toxiony category 1,11110	
		Specific target organ toxicity - single	
		exposure Category 3	
		H335 >= 1 %	
		M = 1	
		M(Chronic) = 10	

Product AT USE DILUTION Hazardous components

Chemical Name	CAS-No. EC-No. REACH No.	Classification REGULATION (EC) No 1272/2008	Concentration : [%]
Peracetic acid	79-21-0 201-186-8 01-2119531330-56	Flammable liquids Category 3; H226 Organic peroxides Type D; 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 Specific target organ toxicity - single exposure Category 3; H335 Chronic aquatic toxicity Category 1; H410 Specific target organ toxicity - single exposure Category 3 H335 >= 1 % M = 1 M(Chronic) = 10	>= 0.1 - < 0.25
Substances with a workp Hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22	Oxidizing liquids Category 1; H271 Acute toxicity Category 4; H302 Acute toxicity Category 4; H332 Skin corrosion Sub-category 1A; H314 Serious eye damage Category 1; H318 Specific target organ toxicity - single exposure Category 3; H335 Chronic aquatic toxicity Category 3; H412 Oxidizing liquids Category 1 H271 >= 70 % Oxidizing liquids Category 2 H272 50 - < 70 % Skin corrosion Category 1A H314 >= 70 % Skin corrosion Category 1B H314 50 - < 70 % Skin irritation Category 2 H315 35 - < 50 % Serious eye damage Category 1 H318 8 - < 50 % Eye irritation Category 2 H319 5 - < 8 % Specific target organ toxicity - single	>= 0.5 - < 1

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		exposure Category 3 H335 >= 35 %	
Acetic acid	64-19-7 200-580-7 01-2119475328-30	Flammable liquids Category 3; H226 Skin corrosion Sub-category 1A; H314 Serious eye damage Category 1; H318 Skin corrosion Category 1A H314 >= 90 % Skin corrosion Category 1B H314 25 - < 90 % Skin irritation Category 2 H315 10 - < 25 % Eye irritation Category 2 H319 10 - < 25 %	>= 0.1 - < 0.25

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

Product AS SOLD

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.

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.

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : 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.

4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Product AS SOLD

5.1 Extinguishing media

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Suitable extinguishing media : Water

Unsuitable extinguishing

media

: Foam

Carbon dioxide (CO2)

Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Special protective equipment for firefighters

Oxidizer. Contact with other material may cause fire.

On decomposition, releases oxygen which may intensify fire. Oxidizer; material is an oxidizer which may readily react with other

materials, especially upon heating.

In case of a fire, if it is possible without risk, remove all containers exposed to the fire and store them in a safe place, away from any

source of heat.

Cool closed containers exposed to fire with water spray.

Hazardous combustion

products

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

5.3 Advice for firefighters

for firefighters

Special protective equipment : In case of fire, wear a full face positive-pressure self contained

breathing apparatus and protective suit.

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

Product AS SOLD

Advice for non-emergency personnel

: Ensure adequate ventilation. 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. Move all flammable sources out of danger and keep them away from the scene. 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.

Product AT USE DILUTION

Advice for non-emergency personnel

: 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.

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6.2 Environmental precautions

Product AS SOLD

Environmental precautions

: Do not allow contact with soil, surface or ground water. DO NOT hermetically seal any defective containers, including drums (risk of bursting due to the decomposition of the product)

Product AT USE DILUTION

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

6.3 Methods and materials for containment and cleaning up

Product AS SOLD

Methods for cleaning up

: Stop leak if safe to do so. Isolate the waste do not allow it to come into contact with incompatible materials. For small spills contain with sand or vermiculite and dilute the contained product at least 10 times with water. Transfer to an open topped container and remove to a safe place for neutralization* / disposal. For large spills contain spill and evacuate the area, leave until the reaction subsides, then collect up for disposal. Obtain consent from the local water company / authority if considering discharge to sewer. *NEUTRALIZATION: once diluted, neutralize with a suitable alkali such as sodium bicarbonate. Combustible materials exposed to this product should be rinsed immediately with large amounts of water to ensure that all product is removed. Residual product which is allowed to dry on organic materials such as rags, cloths, paper, fabrics, cotton, leather, wood, or other combustibles may spontaneously ignite and result in a fire.

Product AT USE DILUTION

Methods for cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible 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

Product AS SOLD

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not breathe spray, vapour. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

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

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handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Advice on safe handling

: Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal

Protective Equipment (PPE).

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.

7.2 Conditions for safe storage, including any incompatibilities

Product AS SOLD

Requirements for storage areas and containers

: Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Absorb spillage to prevent material damage. Keep out of reach of children. Keep container tightly closed. Keep only in original packaging. Store in suitable labeled containers. Pressure bursts may occur due to gas evolution if the container is not adequately vented. Do not hermetically seal the container. Always transport and store the containers upright. Risk of overpressure and bursting in the event of decomposition in closed containers and in pipes.

Storage temperature : 0 °C to 30 °C

Packaging material : Suitable material: Plastic material

Unsuitable material: Mild steel, Aluminium

Product AT USE DILUTION

Requirements for storage areas and containers

: Keep out of reach of children. Keep container tightly closed. Store

in suitable labeled containers.

7.3 Specific end uses

Product AS SOLD

Specific use(s) : Process cleaner. Cleaning In place (CIP) process

Disinfection product. Semi-automatic process

Surface disinfectant. Spray and rinse manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Product AS SOLD

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m3	UKCOSSTD
		STEL	2 ppm 2.8 mg/m3	UKCOSSTD
Acetic acid	64-19-7	TWA	10 ppm	2017/164/EU

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		25 mg/m3	
Further information	Indicative		
	STEL	20 ppm 50 mg/m3	2017/164/EU
Further information	Indicative		
	STEL	20 ppm 50 mg/m3	UKCOSSTD
	TWA	10 ppm 25 mg/m3	UKCOSSTD

DNEL		
Hydrogen peroxide	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 1.4 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term - systemic Value: 3 mg/m3
Acetic acid	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 25 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 25 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 25 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 25 mg/m3
Peracetic acid	:	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 0.56 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 0.56 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.56 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 0.56 mg/m3

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Potential health effects: Acute local effects

Value: 0.56 mg/m3

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0.28 mg/m3

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 0.28 mg/m3

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 0.28 mg/m3

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 0.28 mg/m3

End Use: Consumers Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 1.25 mg/m3

End Use: Consumers Exposure routes: Oral

Potential health effects: Acute systemic effects

Value: 1.25 mg/m3

HEDP : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 12 mg/m3

End Use: Workers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 34 mg/m3

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 2.95 mg/m3

End Use: Consumers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 17 mg/m3

End Use: Consumers Exposure routes: Oral

Potential health effects: Long-term systemic effects

Value: 1.7 mg/m3

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P3-oxonia active End Use: Consumers Exposure routes: Oral Potential health effects: Long-term systemic effects Value: 1.7 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
		Soil Value: 0.32 mg/kg
		value. 0.32 mg/kg

8.2 Exposure controls

Product AS SOLD 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.

: Safety goggles Eye/face protection (EN 166)

Face-shield

Hand protection (EN 374) : In case of skin contact it is recommended to wear gloves to avoid

oxidation effect (e.g. skin whitening)

Recommended preventive skin protection

Gloves Nitrile rubber butyl-rubber

Breakthrough time: 1 – 4 hours

Minimum thickness for butyl-rubber 0.7 mm for nitrile rubber 0.4

mm or equivalent (please refer to the gloves

manufacturer/distributor for advise).

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 including

appropriate safety shoes

Respiratory protection (EN : When respiratory risks cannot be avoided or sufficiently limited by

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143, 14387) technical means of collective protection or by measures, methods

> or procedures of work organization, consider the use of certified respiratory protection equipment meeting EU requirements (89/656/EEC, (EU) 2016/425), or equivalent, with filter type:P

Product AT USE DILUTION Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Individual protection measures

: Handle in accordance with good industrial hygiene and safety Hygiene measures

practice. Remove and wash contaminated clothing before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

Eye/face protection (EN

166)

: No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN

143, 14387)

: None required if airborne concentrations are maintained below the

exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

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

Product AT USE DILUTION Product AS SOLD

Appearance : liquid liquid colourless Colour : colourless Odour : pungent characteristic

: 0.5 - 1.5, 100 % 2.5 Hq

: 100 °C closed cup, Does not sustain combustion. Flash point Odour Threshold : Not applicable and/or not determined for the mixture Melting point/freezing point : Not applicable and/or not determined for the mixture Initial boiling point and

boiling range

: Not applicable and/or not determined for the mixture

Evaporation rate : Not applicable and/or not determined for the mixture Flammability (solid, gas) : Not applicable and/or not determined for the mixture

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Upper explosion limit : Not applicable and/or not determined for the mixture Lower explosion limit : Not applicable and/or not determined for the mixture Vapour pressure : Not applicable and/or not determined for the mixture Relative vapour density : Not applicable and/or not determined for the mixture

Relative density : 1.11 - 1.13 : soluble Water solubility

Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n-: Not applicable and/or not determined for the mixture

octanol/water

: Not applicable and/or not determined for the mixture

Auto-ignition temperature Thermal decomposition : Not applicable and/or not determined for the mixture : Not applicable and/or not determined for the mixture Viscosity, kinematic Explosive properties : Not applicable and/or not determined for the mixture

Oxidizing properties : YesThe substance or mixture is classified as oxidizing with the

category 2.

9.2 Other information

Self-Accelerating

decomposition temperature

(SADT)

: 60 °C

Method: UN-Test H.4

VOC : Not applicable.

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

10.1 Reactivity

Decomposes on heating. Potential for exothermic hazard.

10.2 Chemical stability

Decomposes on heating.

Contamination may result in dangerous pressure increases - closed containers may rupture.

10.3 Possibility of hazardous reactions

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

10.4 Conditions to avoid

Direct sources of heat. Exposure to sunlight.

10.5 Incompatible materials

Organic materials Metals

Bases

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Mild steel Aluminium Metals

Reducing agents Flammable materials

10.6 Hazardous decomposition products

Depending on combustion properties, decomposition products may include following materials: Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product AS SOLD

exposure

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

Product

Acute oral toxicity : Acute toxicity estimate : 1,550 mg/kg

: 4 h Acute toxicity estimate : 4.76 mg/l Acute inhalation toxicity

Test atmosphere: dust/mist

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.

: There is no data available for this product. Germ cell mutagenicity

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

Components

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Acute inhalation toxicity : Peracetic acid 4 h LC50 rat: 1.5 mg/l

Test atmosphere: dust/mist

Components

Acute dermal toxicity : Acetic acid LD50 rabbit: 1,060 mg/kg

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product AS SOLD

Environmental Effects : Very toxic to aquatic life with long lasting effects.

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Product AT USE DILUTION

Environmental Effects : Harmful to aquatic life with long lasting effects.

Product AS SOLD

Product

Toxicity to fish : no data available Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : Hydrogen peroxide96 h LC50 Pimephales promelas (fathead

minnow): 16.4 mg/l

Acetic acid96 h LC50 Oncorhynchus mykiss (rainbow trout): >

1,000 mg/l

Peracetic acid96 h LC50: 0.8 mg/l

Components

aquatic invertebrates

Toxicity to daphnia and other : Acetic acid48 h EC50 Daphnia magna (Water flea): 39.6 mg/l

Peracetic acid48 h EC50: 0.73 mg/l

Components

: Hydrogen peroxide72 h EC50 Skeletonema costatum (marine Toxicity to algae

diatom): 1.38 mg/l

Acetic acid72 h EC50 Skeletonema costatum (marine diatom): >

1,000 mg/l

Peracetic acid72 h EC50: 0.7 mg/l

12.2 Persistence and degradability

Product

no data available

Components

Biodegradability : Hydrogen peroxideResult: Not applicable - inorganic

Acetic acidResult: Readily biodegradable.

Peracetic acidResult: Readily biodegradable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

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12.5 Results of PBT and vPvB assessment

Product

: This substance/mixture contains no components considered to be Assessment

> 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 AS SOLD

: Do not contaminate storm water drains, natural waterways or soil Product

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance 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. Dispose of in accordance with local,

state, and federal regulations.

Guidance for Waste Code

selection

: Inorganic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC)

and local regulations.

Product AT USE DILUTION

Product

Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations.

Dispose of wastes in an approved waste disposal facility.

: Dispose of as unused product. Empty containers should be taken Contaminated packaging

to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local,

state, and federal regulations.

Section: 14. TRANSPORT INFORMATION

Product AS SOLD

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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 : HYDROGEN PEROXIDE AND PEROXYACETIC ACID

name MIXTURE, STABILIZED

14.3 Transport hazard : 5.1 (8)

class(es)

14.4 Packing group : II14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

Air transport (IATA)

14.1 UN number : 3149

14.2 UN proper shipping : Hydrogen peroxide and peroxyacetic acid mixture stabilized

name

14.3 Transport hazard : 5.1 (8)

class(es)

14.4 Packing group : II 14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

Sea transport (IMDG/IMO)

14.1 UN number : 3149

14.2 UN proper shipping : HYDROGEN PEROXIDE AND PEROXYACETIC ACID

name MIXTURE, STABILIZED

14.3 Transport hazard : 5.1 (8)

class(es)

14.4 Packing group : II 14.5 Environmental hazards : Yes

14.6 Special precautions for : None

user

14.7 Transport in bulk : Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

Section: 15. REGULATORY INFORMATION

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

Control of Explosives Precursors and Poisons Regulations 2023

This product is regulated (containing reportable or/and regulated substances) by the Control of Explosives Precursors and Poison Regulations 2023: all suspicious transactions, significant disappearances and thefts should be reported to the relevant national contact point.

Seveso III: Directive : ENVIRONMENTAL HAZARDS E1

2012/18/EU of the European Lower tier : 100 t
Parliament and of the Council Upper tier : 200 t
on the control of major-

accident hazards involving OXIDIZING LIQUIDS AND SOLIDS P8

dangerous substances. Lower tier: 50 t

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Upper tier: 200 t

Candidate List of Substances : Not applicable.

of Very High Concern for

Authorisation

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

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Oxidizing liquids 2, H272	Based on product data or assessment
Corrosive to metals 1, H290	Based on product data or assessment
Acute toxicity 4, H302	Calculation method
Skin corrosion 1, H314	Based on product data or assessment
Serious eye damage 1, H318	Based on product data or assessment
Acute toxicity 4, H332	Calculation method
Specific target organ toxicity - single exposure 3, H335	Calculation method
Chronic aquatic toxicity 1, H410	Calculation method

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.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -

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Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Exposure Scenario: Process cleaner. Cleaning In place (CIP) process

Life Cycle Stage : Use at industrial sites

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

products)

Contributing scenario controlling environmental exposure for:

Environmental release : **ERC4** Industrial use of processing aids in processes and

category products, not becoming part of articles

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: 50 kg Daily amount per site

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

Process category PROC8b Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at

dedicated facilities

Exposure duration 60 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation 1 Ventilation rate per hour

Skin Protection see section 8

Respiratory Protection see section 8

Contributing scenario controlling worker exposure for:

Process category PROC1 Use in closed process, no likelihood of exposure

Exposure duration 480 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection see section 8

Respiratory Protection see section 8

Exposure Scenario: Disinfection product. Semi-automatic process

Life Cycle Stage Use at industrial sites

PC35 Product category Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release

category

ERC4 Industrial use of processing aids in processes and

products, not becoming part of articles

Daily amount per site 50 kg

Type of Sewage Treatment

Plant

: Municipal sewage treatment plant

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Contributing scenario controlling worker exposure for:

PROC8b Process category Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at

dedicated facilities

60 min Exposure duration

Operational conditions and risk management measures Indoor

Local Exhaust Ventilation is not required

General ventilation 1 Ventilation rate per hour

Skin Protection see section 8 **Respiratory Protection** see section 8

Contributing scenario controlling worker exposure for:

PROC4 Use in batch and other process (synthesis) where Process category

opportunity for exposure arises

Exposure duration 480 min

Operational conditions and risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour

Skin Protection see section 8 **Respiratory Protection** see section 8

Exposure Scenario: Surface disinfectant. Spray and rinse manual process

Life Cycle Stage Widespread use by professional workers

Product category **PC35** Washing and cleaning products (including solvent based

products)

Contributing scenario controlling environmental exposure for:

Environmental release ERC8a

category

Wide dispersive indoor use of processing aids in open

systems

Daily amount per site 7.5 kg

Type of Sewage Treatment **Plant**

Municipal sewage treatment plant

Contributing scenario controlling worker exposure for:

Process category PROC10 Roller application or brushing

Exposure duration 480 min

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Operational conditions and

risk management measures

: Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : PROC8a Transfer of substance or preparation (charging/

discharging) from/ to vessels/ large containers at non-

1

1

dedicated facilities

Exposure duration : 60 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour

Skin Protection : see section 8

Respiratory Protection : see section 8

Contributing scenario controlling worker exposure for:

Process category : **PROC11** Non industrial spraying

Exposure duration : 60 min

Operational conditions and

risk management measures

Indoor

Local Exhaust Ventilation is not required

General ventilation Ventilation rate per hour 1

Skin Protection : see section 8

Respiratory Protection : see section 8

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