

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

### 1.1 Product identifier

| VENTUM <sup>®</sup> ONE-TOUCH <sup>™</sup> (LOG 3), or VOT-3 |
|--|
| Develoption anid   |

Peracetic acid

CH<sub>3</sub>-COOOH

- FIFRA Registration nº
- ECHA case nº

- Trade name

- Synonyms

68660-11-98536 BC-LV033912-15 *Proxitane 0514* 

Related Registered Product
 Molecular formula

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

### against uses of the substance/mixture

- Biocide
- It is a violation of the law to use this product in a manner inconsistent with its labeling.
- Contact your supplier for additional information

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

| VENTUM BIOTECH   | AIR CONTACT TECHNOLOGIE                 | SOLVAY CHEMICALS                               |
|--|---|--|
| Cap Omega<br>Rond-Point Benjamin Franklin<br>34000 Montpellier, France | 49 Avenue d'Iéna<br>75016 Paris, France | Rue de Ransbeek, 310<br>1120 Brussels, Belgium |
| Tel: <b>FR</b> +33 4 67 75 56 12<br><b>US</b> +1 (646) 450-4582        | Tel: +33 6 08 76 59 40                  | Tel: +32 2 2642111                             |
| Email: hello@ventumbiotech.com   | Email: contact@air-technologie.com      | Email: contact@solvay.com                      |

#### 1.4 Emergency telephone

For **EMERGENCIES** involving a spill, leak, fire, exposure, or accident, contact **CHEMTREC** (24/7): **800-424-9300** within the United States and Canada, or 703-527-3887 for international collect calls.

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# **SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

### 2.1 Classification of the substance or mixture HCS 2012 (29 CFR 1910.1200) / (CE) No 1272/2008

- Oxidizing liquids Category 2 Corrosive to Metals Category 1 Acute toxicity Category 4 Acute toxicity Category 4 Acute toxicity Category 4 Skin corrosion Category 1B Serious eye damage Category 1 Specific target organ toxicity - single exposure Category 3
- H272: May intensify fire; oxidizer
  H290: May be corrosive to metals
  H302: Harmful if swallowed
  H332: Harmful if inhaled
  H312: Harmful in contact with skin
  H314: Causes severe skin burns and eye damage
  H318: Causes serious eye damage
  H335: May cause respiratory irritation. (Respiratory system)

2.2 Label elements HCS 2012 (29 CFR 1910.1200) / (CE) No 1272/2008



#### **Signal Word**

- Danger

#### **Hazard Statements**

- H272
- H290
- H302 + H312 + H332
- H314
- H335

Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage.

Keep/Store away from clothing/ combustible materials.

Take any precaution to avoid mixing with combustibles.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Do not eat, drink, or smoke when using this product.

May intensify fire; oxidizer.

Keep away from heat.

Keep only in original container.

Wash skin thoroughly after handling.

May be corrosive to metals.

35 May cause respiratory irritation.

| Precautionary S | Statements |
|-----------------|------------|
|-----------------|------------|

#### Prevention

- P210
- P220
- P221
- P234
- P261
- P264
- P270
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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#### **Response**

- P301 + P312 + P330 If swallowed: Call a POISON CENTER or a doctor if you feel unwell. Rinse mouth.
- P301 + P330 + P331 IF swallowed: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF on skin (or hair): Take off immediately all contaminated clothing. Rinse skin withwater/ shower.
- P304 + P340 + P310 IF inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or a doctor.
- P305 + P351 + P338 + P310IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, ifpresent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use water spray to extinguish.
- P390 Absorb spillage to prevent material damage. Storage
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner. Disposal
- P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Other hazards which do not result in classification

- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.



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

### 3.1 Substance

- Not applicable, this product is a mixture.

### 3.2 Mixture

| - Synonyms | Peracetic acid, Peroxyethanoïc acid, PAA |
|------------|--|
| - Formula  | CH3-COOOH                                |

### Hazardous Ingredients and Impurities

| Chemical name                | Identification<br>number [CAS<br>No.] | Concentration [%] |
|------------------------------|---------------------------------------|-------------------|
| Hydrogen peroxide (H2O2)     | 7722-84-1                             | >= 20 - < 25      |
| Acetic acid                  | 64-19-7                               | >= 5 - < 10       |
| Ethaneperoxoic acid          | 79-21-0                               | >= 5 - < 10       |
| Alcohols, C9-11, ethoxylated | 68439-46-3                            | >= 1 - < 5        |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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# **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

#### In case of inhalation

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.

#### In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with plenty of water.
- Keep warm and in a quiet place.
- Call a physician or poison control center immediately.
- Wash contaminated clothing before re-use.

#### In case of eye contact

- Call a physician or poison control center immediately.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
- Take victim immediately to hospital.

# In case of ingestion

- Call a physician or poison control center immediately.
- Take victim immediately to hospital.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

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

#### In case of inhalation

#### Symptoms

- Breathing difficulties
- Cough
- Chemical pneumonitis
- pulmonary edema

#### Effects

- Severe respiratory irritant

#### Repeated or prolonged exposure

- Nose bleeding
- Risk of chronic bronchitis

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### In case of skin contact

#### Symptoms

- Redness
- Swelling of tissue
- Burn

### Effects

- Corrosive

### In case of eye contact

### Symptoms

- Redness
- Lachrymation
- Swelling of tissue
- Burn

### Effects

- Corrosive
- May cause irreversible eye damage.

### In case of ingestion

### Symptoms

- Nausea
- Abdominal pain
- Bloody vomiting
- Diarrhea
- Suffocation
- Cough
- Severe shortness of breath

### Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and thestomach.
- Risk of respiratory disorder

### 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed
- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.





# **SECTION 5: Firefighting measures**

| Flash point                    | Method: closed cup<br>No flash up to boiling point |
|--------------------------------|--|
| Autoignition temperature       | No data available                                  |
| Flammability / Explosive limit | No data available                                  |

#### 5.1 Extinguishing media

#### Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Water
- Water spray

#### Unsuitable extinguishing media

- None

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

#### Mixture-Specific hazards during fire fighting

- May cause fire or explosion, strong oxidizer
- Oxygen released in thermal decomposition may support combustion

#### Hazardous combustion products:

- Oxygen

#### 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

- In the event of fire, wear self-contained breathing apparatus
- Use personal protective equipment
- Wear chemical resistant over-suit
- Cool containers/tanks with water spray
- Prevent fire extinguishing water from contaminating surface water or the ground water system

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# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment, and emergency procedures Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

#### Advice for emergency responders

- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products

#### 6.2 Environmental precautions

- Discharge into the environment must be avoided.
- Do not flush into surface water or sanitary sewer system.
- In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial, and local laws and regulations.

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

- Dam up.
- Soak up with inert absorbent material.
- Do not let product enter drains.
- Keep in suitable, closed containers for disposal.
- Keep in properly labeled containers.

#### 6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

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# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

- Use only in well-ventilated areas.
- Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
- Use only clean and dry utensils.
- Never return unused material to storage receptacle.
- May not get in touch with:
- Organic materials
- Keep away from heat.
- Keep away from incompatible products

#### Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink, or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities technical measures / Storage conditions

- Store in original container.
- Keep tightly closed in a dry, cool, and well-ventilated place.
- Keep in properly labeled containers.
- Keep in a contained area.
- Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
- Electrical equipment should be protected to the appropriate standard.
- Keep away from:
  - Incompatible products
  - OP Storage (Burning Rate) Type IV according to the BGV B4 test method.

#### Packaging material Suitable material

- Stainless steel cleaned and passivated
- Approved grades of HDPE.

#### 7.3 Specific end use(s)

- Contact your supplier for additional information



# **SECTION 8: Exposure controls/personal protection**

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistancewith selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

#### 8.1 Control parameters

#### Components with workplace occupational exposure limits

| Components               | Value type | Value              | Basis   |
|--------------------------|------------|--------------------|---|
| Hydrogen peroxide (H2O2) | TWA        | 1 ppm<br>1.4 mg/m3 | National Institute for Occupational Safety and Health   |
| Hydrogen peroxide (H2O2) | TWA        | 1 ppm              | American Conference of Governmental<br>Industrial Hygienists                                  |
| Hydrogen peroxide (H2O2) | TWA        | 1 ppm<br>1.4 mg/m3 | Occupational Safety and Health<br>Administration / Table Z-1 Limits for Air<br>Contaminants   |
| Acetic acid              | TWA        | 10 ppm<br>25 mg/m3 | National Institute for Occupational<br>Safety andHealth                                       |
| Acetic acid              | STEL       | 15 ppm<br>37 mg/m3 | National Institute for Occupational<br>Safety andHealth                                       |
| Acetic acid              | TWA        | 10 ppm             |   |
| Acetic acid              | STEL       | 15 ppm             | American Conference of<br>Governmental Industrial<br>Hygienists                               |
| Acetic acid              | TWA        | 10 ppm<br>25 mg/m3 | Occupational Safety and Health<br>Administration / Table Z - 1 Limits for Air<br>Contaminants |
| Ethaneperoxoic acid      | STE        | 0.4 ppm            | American Conference of Governmental<br>Industrial Hygienists                                  |

#### NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

| Components               | CAS-No.   | Concentration        |
|--------------------------|-----------|----------------------|
| Hydrogen peroxide (H2O2) | 7722-84-1 | 75 parts per million |
| Acetic acid              | 64-19-7   | 50 parts per million |



#### 8.2 Exposure controls

#### **Control measures**

#### **Engineering measures**

- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Respirator with a vapor filter (EN 141)
- Recommended Filter type: ABEK-P2

#### Hand protection

- Impervious gloves
- Take note of the information given by the producer concerning permeability and break through times, and of specialworkplace conditions (mechanical strain, duration of contact).

#### Suitable material

- butyl-rubber
- Break through time: > 480 min
- Glove thickness: >= 0.4 mm

#### Eye protection

- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear:
- Tightly fitting safety goggles
- Face-shield

#### Skin and body protection

- Apron/boots of butyl rubber if risk of splashing.

#### **Hygiene measures**

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

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# **SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

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

| Appearance  |  |
|---|--|
|   | Physical state: liquid   |
|   | Color: colorless   |
| Odor  | pungent  |
| Odor Threshold  | No data available  |
| рН  | < 2.0  |
|   | <u>рКа:</u> 8.2 (77 °F (25 °C))  |
| Melting point / Freezing point                              | ca44 °F (-42 °C)   |
|   | Method: Calculation method   |
| Initial boiling point and boiling range                     | Boiling point/boiling range: ca. 221 °F (105 °C)                           |
|   | Method: Calculation method   |
| Flash point   | Method: closed cup   |
|   | No flash up to boiling point   |
| Evaporation rate (Butylacetate = 1)                         | No data available  |
| Flammability (solid, gas)<br>Flammability (liquids <u>)</u> | Not applicable<br>The product is not flammable., Heating may cause a fire. |
|   | The product is not naminable., Treating may cause a fire.                  |
| Flammability / Explosive limit                              | Explosiveness:   |
|   | Not explosive  |
| Autoignition temperature                                    | No data available  |
| Vapor pressure  | ca. 24 mmHg (32 hPa) (77 °F (25 °C))                                       |
|   | Method: Calculation method   |
| Vapor density   | No data available  |
| Density   | Bulk density: Not applicable   |
| -   |  |
| Relative density  | 1.1  |
| Solubility  | Water solubility:  |
|   | completely miscible  |
|   | Solubility in other solvents:  |
|   | common organic solvents: soluble   |
|   | Aromatic solvents: slightly soluble  |

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| Partition coefficient: n-octanol/water | Log Pow: -1.25<br>Method: Calculation method<br>log Pow: -0.52<br>Method: measured value |
|--|--|
| Decomposition temperature              | >= 140 °F (>= 60 °C)<br>Self-Accelerating decomposition temperature (SADT)               |
| Viscosity                              | No data available  |
| Explosive properties                   | No data available  |
| Oxidizing properties,                  | The substance or mixture is classified as oxidizing with the category 2.<br>Oxidizer     |

### 9.2 Other information

| <u>Henry's Constant</u> | 22 Pa.m3 / mol<br>not significant, Air, Volatility |
|-------------------------|--|
| Corrosion of Metals     | Corrosive to metals                                |

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# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

- Decomposes on heating.
- Heating may cause a fire.
- Potential for exothermic hazard

#### 10.2 Chemical stability

- Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Risk of explosion if heated under confinement.
- Fire or intense heat may cause violent rupture of packages.

#### 10.4 Conditions to avoid

- Contamination
- To avoid thermal decomposition, do not overheat.

#### 10.5 Incompatible materials

- Acids
- Bases
- Metals
- Heavy metal salts
- Powdered metal salts
- Reducing agents
- Organic materials
- Flammable materials

#### 10.6 Hazardous decomposition products

- Oxygen

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# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

#### Acute toxicity

| Acute oral toxicity                             | LD50: 1,922 mg/kg - Rat<br>Test substance: 5 % PAA mixture               |
|---|--|
| Acute inhalation toxicity                       | LC50 - 4 h (dust/mist) 4 mg/l -<br>RatTest substance: 5 % PAA<br>mixture |
|   | This product is classified as acute toxicity category 4                  |
| Acute dermal toxicity                           | LD50 Dermal 1,147 mg/kg -<br>RabbitTest substance: 5 % PAA<br>mixture    |
|   | This product is classified as acute toxicity category 4                  |
| Acute toxicity (other routes of administration) | No data available  |



| Skin corrosion/irritation  | Rabbit<br>Causes burns.  |
|--|--|
| Serious eye damage/eye irritation                                | Rabbit<br>Causes serious eye damage.   |
| Respiratory or skin sensitization                                |  |
| Hydrogen peroxide (H2O2)   | Does not cause skin sensitization.   |
| Ethaneperoxoic acid  | Maximization Test - Guinea pig<br>Does not cause skin sensitization.<br>Method: OECD Test Guideline 406<br>Unpublished reports |
| Alcohols, C9-11, ethoxylated                                     | Does not cause skin sensitization.<br>category approach<br>Published data  |
| <u>Mutagenicity</u>  |  |
| Genotoxicity in vitro<br>Genotoxicity in vivo<br>Carcinogenicity | In vitro tests have shown mutagenic effects.<br>Animal testing did not show any mutagenic effects.<br>No data available        |

This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP, IARC, OSHA

| Toxicity for reproduction and development |  |  |
|---|--|--|
| Toxicity to reproduction / fertility      | No toxicity to reproduction  |  |
| Developmental Toxicity/Teratogenicity     | Rat<br>Test substance, 15 % PAA mixture, no effect observed on<br>development,Published data                               |  |
| STOT-single exposure                      | May cause respiratory irritation.  |  |
| STOT – repeated exposure                  | The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. |  |
|   | Ingestion 13 weeks - Rat<br>NOAEL: 0.75 mg/kg<br>Test substance: Peracetic acid  |  |
|   | Oral 90-day - Mouse<br>NOAEL:  100 ppm<br>Test substance: Hydrogen peroxide  |  |
|   | Inhalation 90-day - Rat<br>NOAEL: 7 ppm<br>Test substance: Hydrogen peroxide   |  |

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Experience with human exposure Experience with human exposure: Inhalation

No data available

#### Experience with human exposure: Ingestion

No data available

| CMR effects<br>Carcinogenicity<br>Acetic acid | No evidence of carcinogenicity in animal studies.                             |
|---|---|
| Mutagenicity<br>Acetic acid                   | Tests on bacterial or mammalian cell cultures did not show mutagenic effects. |
| Aspiration toxicity                           | Not applicable  |
| Further information                           | No data available   |

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# **SECTION 12: Ecological information**

12.1 Toxicity

| Aquatic Compartment                                |  |
|--|--|
| Acute toxicity to fish<br>Hydrogen peroxide (H2O2) | LC50 - 96 h: 16.4 mg/l – Pimephales promelas (fathead minnow)<br>semi-static test<br>Analytical monitoring: yes  |
|  | Method: according to a standardized method<br>Harmful to fish.<br>Unpublished internal reports   |
| Acetic acid  | LC50 - 96 h: > 300 mg/l – Oncorhynchus mykiss (rainbow trout)<br>semi-static test<br>Analytical monitoring: no   |
|  | Method: OECD Test Guideline 203<br>Not harmful to fish (LC/LL50 > 100 mg/L)<br>Unpublished reports   |
| Ethaneperoxoic acid                                | LC50 - 96 h: 1.1 mg/l – Lepomis macrochirus (Bluegill sunfish)<br>semi-static test<br>Analytical monitoring: yes   |
|  | Unpublished reports<br>Toxic to fish.  |
| Acute toxicity to daphnia and other                | r aquatic invertebrates  |
| Hydrogen peroxide (H2O2)                           | EC50 - 48 h: 2.4 mg/l – Daphnia pulex (Water flea)<br>semi-static test<br>Analytical monitoring: yes<br>Method: according to a standardized method<br>Toxic to aquatic invertebrates.<br>Unpublished internal reports          |
| Acetic acid  | EC50 - 48 h: > 300 mg/l – Daphnia magna (Water flea)<br>semi-static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 202<br>Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)<br>Unpublished reports |
| Ethaneperoxoic acid                                | EC50 - 48 h: 0.73 mg/l – Daphnia magna (Water flea)<br>semi-static test<br>Analytical monitoring: yes<br>Unpublished reports<br>Very toxic to aquatic invertebrates.   |

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| Toxicity to aquatic plants |   |
|----------------------------|---|
| Hydrogen peroxide (H2O2)   | ErC50 - 72 h: 2.62 mg/l – Skeletonema costatum (marine diatom) static test        |
|                            | Analytical monitoring: yes  |
|                            | Method: according to a standardized method  |
|                            | Toxic to algae.   |
|                            | Unpublished internal reports  |
| Acetic acid                | ErC50 - 72 h: > 300 mg/l – Skeletonema costatum (marine diatom) static test       |
|                            | Analytical monitoring: no   |
|                            | Method: OECD Test Guideline 201   |
|                            | Not harmful to algae (EC/EL50 > 100 mg/L)   |
|                            | Unpublished reports   |
|                            | ErC10 - 72 h: 300 mg/l – Skeletonema costatum (marine diatom)<br>static test      |
|                            | Analytical monitoring: yes  |
|                            | Endpoint: Growth rate   |
|                            | Method: OECD Test Guideline 201   |
|                            | No adverse chronic effect observed up to and including the threshold of 1 mg / L. |
|                            | Unpublished reports   |
| Ethaneperoxoic acid        | ErC50 - 72 h: 0.16 mg/l – Pseudokirchneriella subcapitata (green algae)           |
|                            | static test   |
|                            | Analytical monitoring: yes  |
|                            | Unpublished internal reports  |
|                            | Very toxic to algae.  |
| Toxicity to microorganisms |   |
| Hydrogen peroxide (H2O2)   | EC50 - 0.5 h: 466 mg/l – activated sludge   |
|                            | static test<br>Analytical monitoring: yes   |
|                            | Method: OECD Test Guideline 209   |
|                            | Unpublished internal reports  |
|                            |   |
| Acetic acid                | NOEC - 16 h: 1,150 mg/l – Pseudomonas putidasemi                                  |
|                            | static test   |
|                            | Analytical monitoring: no   |
|                            | Published data  |
| Ethaneperoxoic acid        | EC50 - 3 h: 5.1 mg/l – activated sludge   |
|                            | static test   |
|                            | Analytical monitoring: yes  |
|                            | Method: OECD Test Guideline 209   |
|                            | Unpublished internal reports  |
|                            |   |



| Chronic toxicity to fish              |  |
|---------------------------------------|--|
| Ethaneperoxoic acid                   | NOEC: 0.00069 mg/l – 33 Days - Danio rerio (zebra fish)<br>flow-through test                     |
|                                       | Analytical monitoring: yes   |
|                                       | Method: OECD Test Guideline 210  |
|                                       | Unpublished internal reports   |
|                                       | Very toxic to fish with long lasting effects.  |
| Alcohols, C9-11, ethoxylated          | NOEC: 1.5 mg/l – Fish  |
|                                       | No adverse chronic effect observed up to and including the threshold of 1 mg / L. Published data |
| Chronic toxicity to daphnia and other | aquatic invertebrates  |
| Hydrogen peroxide (H2O2)              | NOEC: 0.63 mg/l - 21 Days - Daphnia magna (Water flea)   |
|                                       | flow-through test  |
|                                       | Analytical monitoring: yes   |
|                                       | Method: according to a standardized method   |
|                                       | Harmful to aquatic invertebrates with long lasting effects.<br>Published data                    |
| Ethaneperoxoic acid                   | NOEC: 0.0121 mg/l - 21 Days - Daphnia magna (Water flea)   |
|                                       | flow-through test  |
|                                       | Analytical monitoring: yes   |
|                                       | Unpublished internal reports   |
|                                       | Toxic to aquatic invertebrates with long lasting effects.  |
| Alcohols, C9-11, ethoxylated          | EC10: 2.58 mg/l – Daphnia magna (Water flea)<br>Reproduction Test                                |
|                                       | No adverse chronic effect observed up to and including the threshold of 1 mg / L.                |
|                                       | Published data   |
| <u>M-Factor</u>                       |  |
| Ethaneperoxoic acid                   | Acute aquatic toxicity = 1   |
|                                       | Chronic aquatic toxicity = 10  |
|                                       | (According to the Globally Harmonized System (GHS))  |
| 12.2 Persistence and degradability    |  |
| Abiotic degradation                   | No data available  |

No data available

Physical- and photochemicalelimination

**Biodegradation** 

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| Biodegradability                      | aerobic<br>Biodegradab<br>le<br>Effects on wastewater treatment<br>plantsInhibitor<br>Method: Abiotic degradation |
|---------------------------------------|---|
| Degradability assessment              |   |
| Hydrogen peroxide (H2O2)              | The product is rapidly degradable in the environment  |
| Acetic acid                           | The product is rapidly degradable in the environment  |
| Ethaneperoxoic acid                   | The product is rapidly degradable in the environment  |
| 12.3 Bio-accumulative potential       |   |
| Partition coefficient: n-octanol/wa   | ter   |
| Hydrogen peroxide (H2O2)              | Not potentially bio-  |
| accumulableAcetic acid                | Not potentially bio-  |
| accumulable                           |   |
| Ethaneperoxoic acid                   | Not potentially bio-accumulable   |
| Bioconcentration factor (BCF)         | Does not bioaccumulate.   |
| 12.4 Mobility in soil                 |   |
| Adsorption potential (Koc)            | Water   |
|                                       | solubl  |
|                                       | e   |
|                                       | mobil   |
|                                       | e   |
|                                       | Soil/sediments  |
|                                       | non-significant adsorption  |
| Known distribution to environmer      | -   |
| Hydrogen peroxide (H2O2)              | Ultimate destination of the product:  |
| WaterEthaneperoxoic acid<br>Water     | Ultimate destination of the product:  |
| 12.5 Results of PRT and vPvR assessme | ent This mixture contains no substance considered to be persistent,   |
| bioaccumulating,                      |   |
|                                       | and taxia (DDT)   |

and toxic (PBT). This mixture contains no substance considered to be very persistent and verybioaccumulating (vPvB).

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### 12.6 Other adverse effects (Ecotoxicity assessment)

| Short-term (acute) aquatic hazard  | According to the available data on the components<br>Toxic to aquatic life.<br>According to the classification criteria for mixtures.Unpublished reports<br>Published data                                |
|------------------------------------|---|
| Long-term (chronic) aquatic hazard | According to the available data on the components<br>Very toxic to aquatic life with long lasting effects. According to the<br>classification criteria for mixtures.Unpublished reports<br>Published data |

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product Disposal**

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

#### Advice on cleaning and disposal of packaging

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

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# **SECTION 14: Transport information**

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

| DOT   |         | TDG  |         |
|---|---------|--|---------|
| 14.1 UN number  | UN 3149 | 14.1 UN number                             | UN 3149 |
| 14.2 Proper shipping name                             |         | 14.2 Proper shipping name                  |         |
| 14.3 Transport hazard class                           | 5.1     | 14.3 Transport hazard class                | 5.1     |
| Subsidiary hazard class                               | 8       | Subsidiary hazard class                    | 8       |
| Label(s)  | 5.1 (8) | Label(s)                                   | 5.1 (8) |
| 14.4 Packing group                                    | П       | 14.4 Packing group                         | II      |
| Packing group   |         | Packing group                              |         |
| ERG No  | 140     | ERG No                                     | 140     |
| <b>14.5 Environmental hazards</b><br>Marine pollutant | NO      | 14.5 Environmental hazardsMarine pollutant | YES     |

| NOM  |         | IMDG                                       |          |
|--|---------|--|----------|
| 14.1 UN number                             | UN 3149 | 14.1 UN number                             | UN 3149  |
| 14.2 Proper shipping name                  |         | 14.2 Proper shipping name                  |          |
| 14.3 Transport hazard class                | 5.1     | 14.3 Transport hazard class                | 5.1      |
| Subsidiary hazard class                    | 8       | Subsidiary hazard class                    | 8        |
| Label(s)                                   | 5.1 (8) | Label(s)                                   | 5.1 (8)  |
| 14.4 Packing group (Packing group)         | II      | 14.4 Packing group (Packing group)         | П        |
| ERG No                                     | 140     | 14.5 Environmental hazardsMarine pollutant | YES      |
| 14.5 Environmental hazardsMarine pollutant | YES     | 14.6 Special precautions for user (EmS)    | F-H, S-Q |

For personal protection see section 8.



### **14.7 Transport in bulk vessels according to IMO instruments** No data available

| ΙΑΤΑ   |                                |
|--|--------------------------------|
| 14.1 UN number   | UN 3149                        |
| 14.2 Proper shipping name  |                                |
| <ul> <li>14.3 Transport hazard class</li> <li>Subsidiary hazard class:</li> <li>Label(s):</li> <li>14.4 Packing group (Packing group)</li> </ul> | 5.1<br>8<br>5.1 (8)<br>II      |
| Packing instruction (cargo aircraft)<br>Max net qty / pkg<br>Packing instruction (passenger aircraft)<br>Max net qty / pkg                       | 554<br>5.00 L<br>550<br>1.00 L |
| 14.5 Environmental hazards   | YES                            |

For personal protection see section 8

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

# **SECTION 15: Regulatory information**



#### 15.1 Notification status

| Inventory Information  | Status  |
|--|---|
| United States TSCA Inventory   | All substances listed as active on the TSCA inventory   |
| Canadian Domestic Substances List (DSL)  | Listed on Inventory   |
| Australia Inventory of Chemical Substances (AICS)  | Listed on Inventory   |
| Japan. CSCL - Inventory of Existing and New Chemical<br>Substances                       | Listed on Inventory   |
| Korea. Korean Existing Chemicals Inventory (KECI)  | Listed on Inventory   |
| China. Inventory of Existing Chemical Substances in China (IECSC)                        | Listed on Inventory   |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)                       | Listed on Inventory   |
| Taiwan Chemical Substance Inventory (TCSI)   | Listed on Inventory   |
| New Zealand. Inventory of Chemical Substances  | All components are listed on the NZIOCinventory. The HSNO status of the product has not been assessed.  |
| EU. European Registration, Evaluation, Authorisation and Restriction of CHEMICAL (REACH) | When purchased from a Ventum legal entity based in<br>the EEA ("European Economic Area"), this product is<br>compliant with the registration provisions of the REACH<br>Regulation (EC) No. 1907/2006 as all its components<br>are either excluded, exempt, and/or registered. When<br>purchased from a legalentity outside of the EEA, please<br>contactyour local representative for additional<br>information. |

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**15.2 Federal Regulations** 

### US. EPA EPCRA SARA Title III

#### Sara Hazard Designation Sections 311/312 (40 CFR 370)

| Oxidizer (liquid, solid or gas)                              | Yes |
|--|-----|
| Corrosive to Metals  | Yes |
| Acute toxicity (any route of exposure)                       | Yes |
| Skin corrosion or irritation                                 | Yes |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (Single or repeated exposure) | Yes |

The categories not mentioned are not relevant for the product.

#### Section 313 Toxic Chemicals (40 CFR 372.65)

The following components are subject to reporting levels established by SARA Title III, Section 313:

| <b>Components</b><br>Ethaneperoxoic acid | <b>CAS-No.</b><br>79-21-0 | Concentration<br>5- 10%    |                    |
|--|---------------------------|----------------------------|--------------------|
| Components                               | CAS-No.                   | Threshold planningquantity | Remarks            |
| Hydrogen peroxide (H2O2)                 | 7722-84-1                 | 1000 lb                    | Form: >52-<br>100% |
| Ethaneperoxoic acid                      | 79-21-0                   | 500 lb                     |                    |

#### Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

| Components               | CAS-No.   | Reportable quantity |
|--------------------------|-----------|---------------------|
| Hydrogen peroxide (H2O2) | 7722-84-1 | 1000 lb             |

#### Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

| Components               | CAS-No.   | Reportable quantity |
|--------------------------|-----------|---------------------|
| Hydrogen peroxide (H2O2) | 7722-84-1 | 1000 lb             |

#### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

| Components  | CAS-No. | Reportable quantity |
|-------------|---------|---------------------|
| Acetic acid | 64-19-7 | 5000 lb             |

Calculated RQ exceeds reasonably attainable upper limit.

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### **FIFRA INFORMATION**

### EPA Registration Number: 68660-11

### 15.3 State Regulations

### US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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# **SECTION 16: Other information**

#### NFPA (National Fire Protection Association) - Classification

| Health                    | 3 serious   |
|---------------------------|-------------|
| Flammability              | 1 slight    |
| Instability or Reactivity | 2 moderate  |
| Special Notices           | OX Oxidizer |

#### HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

| Health       | 3 serious   |
|--------------|---|
| Flammability | 1 slight  |
| Reactivity   | 2 moderate  |
| PPE          | Determined by User; dependent on local conditions |

#### Key or legend to abbreviations and acronyms used in the safety data sheet

| - | ST      | STEL – 15 minutes TWA exposure that should not be exceeded at any time during a workday |
|---|---------|---|
| - | STEL    | Short-term exposure limit   |
| - | TWA     | 8-hour, time-weighted average   |
| - | ACGIH   | American Conference of Governmental Industrial Hygienists                               |
| - | OSHA    | Occupational Safety and Health Administration   |
| - | NTP     | National Toxicology Program   |
| - | IARC    | International Agency for Research on Cancer   |
| - | NIOSH   | National Institute for Occupational Safety and Health                                   |
| - | ADR:    | European Agreement on International Carriage of Dangerous Goods by Road                 |
| - | ADN:    | European Agreement on the International Carriage of Dangerous Goods by Inland Waterways |
| - | RID     | European Agreement concerning the International Carriage of Dangerous Goods by Rail     |
| - | IATA    | International Air Transport Association   |
| - | ICAO-TI | Technical Specification for Safe Transport of Dangerous Goods by Air                    |
| - | IMDG    | International Maritime Dangerous Goods  |
| - | TWA     | Time weighted average   |
| - | ATE     | Estimated value of acute toxicity   |
| - | EC      | European Community number   |
| - | CAS     | Chemical Abstracts Service  |
| - | LD50    | Substance that causes 50% (half) death in the test animal group (Median Fatal Dose)     |
| - | LC50    | Substance concentration causing 50% (half) death in the test animal group               |
| - | EC50    | Effective Concentration of the substance causing the maximum of 50%                     |
| - | PBT     | Persistent, Bio-accumulative, and Toxic substance                                       |
| - | vPvB    | Very Persistent and Very Bio-accumulative   |
| - | SEA     | Classification, labeling, packaging regulation  |
| - | DNEL    | Derived No Effect Level   |
| - | PNEC    | Predicted No Effect Concentration   |
| - | BHOT    | Specific Target Organ Toxicity  |
|   |         |   |

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and maynot be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.