



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

1.1 Product identifier

- Trade name VENTUM® ONE-TOUCH™
- Synonyms Peracetic acid
- FIFRA Registration n° 68660-11
 - EPA Distributor Product n° 98536 (68660-11-98536)
 - ECHA case n° BC-LV033912-15
- Related Registered Product Proxitane AHC (U.S. EPA), Proxitane 5-23 (ECHA)
- Molecular formula CH₃-COOOH

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

- Pesticide
- It is a violation of federal 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

Cap Omega
Rond-Point Benjamin Franklin
34000 Montpellier, France

Tel: **FR** +33 4 67 75 56 12
US +1 (646) 450-4582

Email: hello@ventumbiotech.com

AIR CONTACT TECHNOLOGIE

49 Avenue d'Iéna
75016 Paris, France

Tel: +33 6 08 76 59 40

Email: contact@air-technologie.com

SOLVAY CHEMICALS

3737 Buffalo Speedway
Suite 800
Houston, TX 77098, USA

Tel: +1 (713) 525-6000

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.



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

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

Pictogram



Signal Word

- Danger

Hazard Statements

- | | |
|----------------------|---|
| - H272 | May intensify fire; oxidizer. |
| - H290 | May be corrosive to metals. |
| - H302 + H312 + H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| - H314 | Causes severe skin burns and eye damage. |
| - H335 | May cause respiratory irritation. |

Precautionary Statements

Prevention

- | | |
|--------|---|
| - P210 | Keep away from heat. |
| - P220 | Keep/Store away from clothing/ combustible materials. |
| - P221 | Take any precaution to avoid mixing with combustibles. |
| - P234 | Keep only in original container. |
| - P261 | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. |
| - P264 | Wash skin thoroughly after handling. |
| - P270 | Do not eat, drink, or smoke when using this product. |
| - P271 | Use only outdoors or in a well-ventilated area. |
| - P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |



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 with water/ 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 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present 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, Peroxyethanoic acid, PAA
- Formula CH₃-COOOH

Hazardous Ingredients and Impurities

Chemical name	Identification number [CAS No.]	Concentration [%]
Hydrogen peroxide (H ₂ O ₂)	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.



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



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 the stomach.
- 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
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



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.



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. Assistance with 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 (H ₂ O ₂)	TWA	1 ppm 1.4 mg/m ³	National Institute for Occupational Safety and Health
Hydrogen peroxide (H ₂ O ₂)	TWA	1 ppm	American Conference of Governmental Industrial Hygienists
Hydrogen peroxide (H ₂ O ₂)	TWA	1 ppm 1.4 mg/m ³	Occupational Safety and Health Administration / Table Z-1 Limits for Air Contaminants
Acetic acid	TWA	10 ppm 25 mg/m ³	National Institute for Occupational Safety and Health
Acetic acid	STEL	15 ppm 37 mg/m ³	National Institute for Occupational Safety and Health
Acetic acid	TWA	10 ppm	
Acetic acid	STEL	15 ppm	American Conference of Governmental Industrial Hygienists
Acetic acid	TWA	10 ppm 25 mg/m ³	Occupational Safety and Health Administration / Table Z - 1 Limits for Air Contaminants
Ethaneperoxoic acid	STE	0.4 ppm	American Conference of Governmental Industrial Hygienists

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

Components	CAS-No.	Concentration
Hydrogen peroxide (H ₂ O ₂)	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 special workplace 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.



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

Odor

Color: colorless
pungent

Odor Threshold

No data available

pH

< 2.0
pKa: 8.2 (77 °F (25 °C))

Melting point / Freezing point

ca. -44 °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)

Not applicable

Flammability (liquids)

The product is not flammable., Heating 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



Partition coefficient: n-octanol/water	Log Pow: -1.25 Method: Calculation method log Pow: -0.52 Method: measured value
Decomposition temperature	>= 140 °F (>= 60 °C) 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. Oxidizer

9.2 Other information

<u>Henry's Constant</u>	22 Pa.m ³ / mol not significant, Air, Volatility
<u>Corrosion of Metals</u>	Corrosive to metals



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



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

LD50: 1,922 mg/kg - Rat
Test substance: 5 % PAA mixture

Acute inhalation toxicity

LC50 - 4 h (dust/mist) 4 mg/l -
Rat Test substance: 5 % PAA
mixture

This product is classified as acute toxicity category 4

Acute dermal toxicity

LD50 Dermal 1,147 mg/kg -
Rabbit Test substance: 5 % PAA
mixture

This product is classified as acute toxicity category 4

Acute toxicity (other routes of administration)

No data available



Skin corrosion/irritation

Rabbit
Causes burns.

Serious eye damage/eye irritation

Rabbit
Causes serious eye damage.

Respiratory or skin sensitization

Hydrogen peroxide (H₂O₂) Does not cause skin sensitization.

Ethaneperoxoic acid Maximization Test - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406
Unpublished reports

Alcohols, C9-11, ethoxylated Does not cause skin sensitization.
category approach
Published data

Mutagenicity

Genotoxicity in vitro In vitro tests have shown mutagenic effects.
Genotoxicity in vivo Animal testing did not show any mutagenic effects.
Carcinogenicity 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
Test substance, 15 % PAA mixture, no effect observed on
development, Published data

STOT

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
NOAEL: 0.75 mg/kg
Test substance: Peracetic acid

Oral 90-day - Mouse
NOAEL: 100 ppm
Test substance: Hydrogen peroxide

Inhalation 90-day - Rat
NOAEL: 7 ppm
Test substance: Hydrogen peroxide



Experience with human exposure

Experience with human exposure: Inhalation

No data available

Experience with human exposure: Ingestion

No data available

CMR effects

Carcinogenicity

Acetic acid

No evidence of carcinogenicity in animal studies.

Mutagenicity

Acetic acid

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Aspiration toxicity

Not applicable

Further information

No data available



SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Hydrogen peroxide (H ₂ O ₂)	LC ₅₀ - 96 h: 16.4 mg/l – Pimephales promelas (fathead minnow) semi-static test Analytical monitoring: yes Method: according to a standardized method Harmful to fish. Unpublished internal reports
Acetic acid	LC ₅₀ - 96 h: > 300 mg/l – Oncorhynchus mykiss (rainbow trout) semi-static test Analytical monitoring: no Method: OECD Test Guideline 203 Not harmful to fish (LC/LL ₅₀ > 100 mg/L) Unpublished reports
Ethanediperoxy acid	LC ₅₀ - 96 h: 1.1 mg/l – Lepomis macrochirus (Bluegill sunfish) semi-static test Analytical monitoring: yes Unpublished reports Toxic to fish.

Acute toxicity to daphnia and other aquatic invertebrates

Hydrogen peroxide (H ₂ O ₂)	EC ₅₀ - 48 h: 2.4 mg/l – Daphnia pulex (Water flea) semi-static test Analytical monitoring: yes Method: according to a standardized method Toxic to aquatic invertebrates. Unpublished internal reports
Acetic acid	EC ₅₀ - 48 h: > 300 mg/l – Daphnia magna (Water flea) semi-static test Analytical monitoring: yes Method: OECD Test Guideline 202 Not harmful to aquatic invertebrates. (EC/EL ₅₀ > 100 mg/L) Unpublished reports
Ethanediperoxy acid	EC ₅₀ - 48 h: 0.73 mg/l – Daphnia magna (Water flea) semi-static test Analytical monitoring: yes Unpublished reports Very toxic to aquatic invertebrates.



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)
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
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)
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.
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)
Reproduction Test
No adverse chronic effect observed up to and including the threshold of 1 mg / L.
Published data

M-Factor

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

Physical- and photo-chemical elimination

No data available

Biodegradation



Biodegradability

aerobic
Biodegradab
le
Effects on wastewater treatment
plantsInhibitor
Method: Abiotic degradation

Degradability assessment

Hydrogen peroxide (H ₂ O ₂)	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/water

Hydrogen peroxide (H ₂ O ₂)	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 (K_{oc}) Water
solubl
e
mobil
e
Soil/sediments
non-significant adsorption

Known distribution to environmental compartments

Hydrogen peroxide (H ₂ O ₂)	Ultimate destination of the product:
WaterEthaneperoxoic acid	Ultimate destination of the product:
Water	

12.5 Results of PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating,

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



12.6 Other adverse effects (Ecotoxicity assessment)

Short-term (acute) aquatic hazard

According to the available data on the components
Toxic to aquatic life.
According to the classification criteria for mixtures. Unpublished reports
Published data

Long-term (chronic) aquatic hazard

According to the available data on the components
Very toxic to aquatic life with long lasting effects. According to the
classification criteria for mixtures. Unpublished reports
Published data



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.



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	II	14.4 Packing group	II
Packing group		Packing group	
ERG No	140	ERG No	140
14.5 Environmental hazards		14.5 Environmental hazards	
Marine pollutant	NO	Marine 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)	II
ERG No	140	14.5 Environmental hazards	YES
14.5 Environmental hazards		Marine pollutant	YES
Marine 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

IATA

14.1 UN number UN 3149

14.2 Proper shipping name

14.3 Transport hazard class 5.1

Subsidiary hazard class: 8

Label(s): 5.1 (8)

14.4 Packing group (Packing group) II

Packing instruction (cargo aircraft) 554

Max net qty / pkg 5.00 L

Packing instruction (passenger aircraft) 550

Max net qty / pkg 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 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 NZIOC inventory. <i>The HSNO status of the product has not been assessed.</i>
EU. European Registration, Evaluation, Authorisation and Restriction of CHEMICAL (REACH)	When purchased from a Ventum legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.



15.2 Federal Regulations

US. EPA EPCRA SARA Title III

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

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

Components	CAS-No.	Concentration	
Ethaneperoxoic acid	79-21-0	5- 10%	

Components	CAS-No.	Threshold planning quantity	Remarks
Hydrogen peroxide (H2O2)	7722-84-1	1000 lb	Form: >52-100%
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.



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.



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 may not 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.