



Technical Data

Overview

Ventum One-Touch™ is an Environmental Protection Agency (EPA) registered product designed to be used as a virucide, bactericide, fungicide and sporicide. Used as a disinfectant for cleanroom air and surfaces in the health/medical pharmaceutical, life science and food industry, One-Touch™ is a stabilized blend of peracetic acid, hydrogen peroxide and acetic acid, providing fast and effective microbial control.

One-Touch[™] is available in different grades to accommodate a broad range of applications, from disinfection to sterilization and is acceptable for use on a wide range of surfaces. Please contact Ventum regarding substrate compatibility reports.

One-Touch™ is a pressurized device of PAA solution with a mixture of 2 neutral, stabilizing gazes providing a powerful jet release within a one-shot dispersant nozzle. Residual PAA usually decomposes to acetic acid, oxygen and water. Consequently, the probability of consumer exposures to PAA is low. Exposure to PAA during its active phase can cause severe irritation, burns and other health effects to the skin, eyes and respiratory tract. Ingestion should be avoided at all concentrations. Most PAA is consumed in applications where it is used; however, it is not persistent in the environment and decomposes to acetic acid, water and oxygen when exposed to soils, sediments and surface or ground waters.

Properties

CAS # 79-21-0

Formula C₂H₄O₃

Form Colorless liquid

Odor Vinegar

Density 1.01

Sterile SAL of 1x10⁻⁶

For further information, please contact:

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Ventum® One-Touch™

[Peracetic Acid]

Product summary

	HYDROGENE PEROXIDE	PERACETIC ACID	ACETIC ACID
CAS NO. STRUCTURE	7722-84-1 H H	79-21-0 O OH	64-19-7 OH H-C-C-C H O-H
MOLECULAR FORMULA	H_2O_2	$C_2H_4O_3$	$C_2H_4O_2$
OTHER NAMES	Dioxidane Oxidanyl	Ethaneperoxoic acid Peroxyacetic acid Acetic Peroxide Acetyl hydroperoxide Proxitane	Latin: <i>acetum</i> (vinegar) Ethanoic acid Methanecarboxylic acid
MOLAR MASS	34.0147 g/mol	76.05 g/mol	60.05 g/mol
APPEARANCE	Very light blue colorless in solution	Colorless liquid	Colorless liquid
DENSITY	1.135 g/cm³ (20°C - 30%) 1.450 g/cm³ (20°C - Pure)	1.0375 g/ml	1.049 g/cm ³
ODOR	Slightly Sharp		Pungent / Vinegar-like
MELTING POINT	-0.43°C	0°C	16°C
BOILING POINT EU CLASSIFICATION & CLP REGULATIONS	150.2°C Oxident (O)	25°C Oxident (O)	118°C Corrosive (C)
GHS PICTOGRAMS	Corrosive (C) Harmful (Xn)	Corrosive (C) Dangerous for the environment (N)	Flammable
NFPA 704	302 OX	3 2 2 OX	3 2 0
FLASH POINT	Non-Flammable	40.5°C	40°C
USA	Decomposition	Registered as an antimicrobial	USA produce some
EPA & FDA	2H ₂ O ₂ →2H ₂ O + O ₂ FDA registered as an antimicrobial and environmentally safe alternative to Chlorine based bleaches for the desinfection in the medical field and waste-water to destyroy organic contaminates,	for indoor use at medical facilities, agricultural premises, food, dairy/cheese processing, pasteurizers, breweries, also as water purifier and cooling water tower desinfectant to control Legionella bacteria	3 Mt/a (million tons /year) widely used. Diluted acetic acid is used in physical therapy & sport therapies using iontophoresis or electro- osmosis flux and blood glucose detection across

reduce odors

skin layers





Test & Efficiency Procedure

Ventum® One-Touch™ has been tested by diffusing several multiples of 12mg/m³ with the following volumes:

- o Bio Safety Cabinet (BSC Type II): 2m³
- o Vertical Laminar Air Flow Workstation (VLAFW): 5m³
- Weighing Station (WS): 10m³
- o Intensive Care (IC): 50m³
- o Surgery Room (SR): 100m³
- ➤ Biological Indicators (BI):
 - APEX type BI 10⁴, 10⁵, 10⁶ Geobacillus stearothermophilus spores on stainless steel coupons
 - Incubation for 7 days at 55 60°C
 - o Positive tests for the coupons | Negative tests for the media
- Chemical Indicators (CI):
 - o Test for acetic acid from clear to dark color indication by pH measuring

INDICATOR	TANK CAPACITY [ML]	BLEND [ML]	VOLUME [M³]
D1	125	24	2
D2	125	24	2
D3	210	60	5
D4	210	60	5
D5	300	120	10
D6	300	120	10
D7	650	600	50
D8	650	600	50
D9	800	1200	100
D10	800	1200	100





Test & Efficiency Procedure (Continued)

TYPE	BI POSITIVE	BI NEGATIVE	CI POTITIVE	CI NEGATIVE	BSC Type II	VLAFW	ws	IC	SR
CI 1	√	1	1	1	Positive	Positive	Positive	Positive	Positive
CI 2	√	\checkmark	√	1	Positive	Positive	Positive	Positive	Positive
CI 3	√	√	√	1	N.A.	N.A.	Positive	Positive	Positive
CI 4	√	\checkmark	√	√	N.A.	N.A.	N.A.	Positive	Positive
CI 5	√	1	√	1	N.A.	N.A.	N.A.	Positive	Positive
BI 1 (10⁴)	√	\checkmark	√	1	Limpid	Limpid	Limpid	Limpid	Limpid
BI 2 (10 ⁵)	√	1	√	1	Limpid	Limpid	Limpid	Limpid	Limpid
BI 3 (10 ⁶)	J	1	√	1	Limpid	Limpid	Limpid	Limpid	Limpid
BI 4 (10 ⁶)	√	\checkmark	√	√	Limpid	Limpid	Limpid	Limpid	Limpid
BI 5 (10 ⁶)	√	\checkmark	√	√	N.A.	N.A.	Limpid	Limpid	Limpid
BI 6 (10 ⁶)	√	1	√	1	N.A.	N.A.	N.A.	Limpid	Limpid
BI 7 (10 ⁶)	√	√	√	1	N.A.	N.A.	N.A.	Limpid	Limpid
BI 8 (10 ⁶)	√	\checkmark	√	1	N.A.	N.A.	N.A.	Limpid	Limpid
BI 9 (10 ⁶)	√	\checkmark	1	1	N.A.	N.A.	N.A.	N.A.	Limpid
BI 10 (10 ⁶)	√	1	1	1	N.A.	N.A.	N.A.	N.A.	Limpid





Product Data

Ventum® One-Touch™ is a solution containing peracetic acid, hydrogen peroxide and acetic acid. It is a highly effective biocide, used in a wide range of applications for the disinfection of equipment, surfaces or fluids.

Some applications of this product may be regulated or restricted by national or international standards (e.g. for food or feed additives, water treatments, cosmetic or pharmaceutical industry). The buyer and the eventual user, in his sole and entire liability, shall respect those standards, others of any relevant authority, and all existing patents and intellectual property rights; and shall comply with the laws and the regulations applicable to our products and/or to their activity. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.

For detailed information on the applications of peracetic acid, please contact Ventum Biotech, or ventumbiotech.com/technical-data

Standard Sales Specification

Description of the product [Contains surfactant]

CONTENT	UNIT	VALUE	METHODS OF ANALYSIS
PERACETIC ACID	Weight %	4,7 - 5,4	PAA-101/0-N
HYDROGEN PEROXIDE	Weight %	19,0 – 24,0	PAA-102/0-N
APPEARANCE		Clear liquid	Visual Inspection

Packaging

Ventum® One-Touch™ can be delivered in IBC's or drums.

Please consult Ventum Biotech for any further information relating to the product or options for supply.

Identification

COMPONENTS	PERACETIC ACID	HYDROGEN PEROXID	ACETIC ACID
CHEMICAL FORMULA	CH₃COOOH	H_2O_2	CH₃COOH
CAS NUMBER	79-21-0	7722-84-1	64-19-7
EC (EINECS) NUMBER	201-186-8	231-765-0	200-580-7

Ventum® One-Touch™ is an aqueous solution of peracetic acid, hydrogen peroxide and acetic acid. It's a clear, colorless liquid, with a pungent odor, miscible with water in all proportions.



[Peracetic Acid]

CHARACTERISTIC	UNIT	VALUE
SPECIFIC GRAVITY	m³	1.1
FREEZING POINT	°C	-30
AVAILABLE OXYGEN	Weight %	~10.5
FLASH POINT		N/A

Ventum® One-Touch™ should be stored in properly designed bulk storage tanks made from approved materials. The packed One-Touch™ solution should be stored in the original vented container, upright, in a cool, ventilated area where the containers are protected from damage. Use only approved materials for pumps, piping and hoses.

Ventum® One-Touch™ has very specific requirements regarding handling and storage precautions. Contact your supplier to obtain more detailed information.

Personnel working with Ventum® One-Touch™ should be familiar with safety and handling procedures and should always wear goggles of face shield and rubber gloves. When working with large quantities, chemical suit and rubber boots shall be worn as well. Ventum® One-Touch™ is a corrosive solution that can cause burns. In case of contact with skin or eyes, always rinse with plenty of water and consult a doctor.

Detailed safety information is available in the MSDS (Material Safety Data Sheet)

UN Code	3149
ADR/RID Class	5.1
Packing group	II
Hazard label	5.1 + 8
Danger code	58
Placard	58/5149



List of compatible materials









Synthetic Materials

NAME	ISO SYMBOL	QUALIFICA TION
POLYTETRAFLUORETHYLE NE	Ptfe	A
ETHYLENE-PROPYLENE FLUORIDATED	Eff	Α
ALKOXY PER FLUORIC	Afp	Α
ETHYLENE TETRAFLUORETHYLENE	ÈTFE	Α
POLY VINYLIDENE FLUORIDE	PVDF	Α
POLYAMIDE	pa	В
POLYOXYMETHYLENE	POM (H)	В
POLYOXYMETHYLENE	POM (C)	С
ETHYLENE TEREPHTHALATE POLYTEREPHTHALATE	PETP	A
POLYPHENYLENE OXIDE	PPO	Α
POLYPHENYLENE SULPHIDE	Pps	Α
POLYVINYL CHLORIDE	Soft PVC	Α
POLYVINYL CHLORIDE	HARD PVC	Α
POLYETHYLENE	PE	Α
POLYPROPYLENE	Рр	Α
POLYETHER SULPHATE	Pes	Α
POLY SULPHATE	Psu	Α
POLYCARBONATE	PC	Α
METHYL METHYLATE POLY METHYLATE	РММА	Α





Elastomers

NAME	ISO SYMBOL	QUALIFICA TION
NATURAL GUM (ISOPRENE RUBBER)	Nr	В
STYRENE RUBBER- BUTADIENE (BUNA S)	SBR	В
RUBBER WITH BUTYLENE ISO-ISOPRENE (CAOUTCHOUC AU BUTYL/CHLORBUTYL)	IIR/CIIR	A
BUTADIENE- ACRYLONITRILE RUBBER (CAOUTCHOUC AU NITRIL/PERBUNAN N)	NBR	В
CHLOROPRENE RUBBER (NEOPREN)	cr	A
RUBBER CHLOROSULFONYLE- POLYETHYLENE (HYPALON)	Msc	A
POLYACRYLATE RUBBER	Acm	С
RUBBER EPICHLORHYDRIN	ECO/CO	В
ETHYLENE RUBBER PROPYLENE	EPDM/EP M	A
SILICONE RUBBER	MQ/MVP	В
FLUORIDATED SILICONE RUBBER	MFQ	A
FLUORIDATED RUBBER (VITON)	Fpm	A
POLYURETHANE- ELASTOMER, RETICULATED	AU/EU/PU RE	С
PERFLUORATED ELASTOMER	KALREZ	Α

Qualification Index

- A Resistant (virtually no, or only little attack)
- **B** Relatively resistant (moderate attack)
- C Non-resistant (important attacker)
- **D** Low corroded (low corroded)



Ventum® One-Touch™ [Peracetic Acid]

Efficiency Tests

NF T72-281

 Air surface disinfection procedures - Determination of bactericidal activity, fungicide, levuricide, mycobactericidal, tuberculocidal sporicide and virucide including bacteriophages

EN 14,476

• Quantitative suspension test for evaluation of virucidal activity in the medical field

EN 1276

 Quantitative suspension test for the evaluation of bactericidal activity of antiseptics and chemical disinfectants used in the agri-food, industrial, domestic and community fields

EN 13,610

 Quantitative suspension test for evaluation of virucidal activity against bacteriophages of chemical disinfectants used in the agri-food and industrial fields

EN 13,623

 Quantitative suspension test for evaluation of bactericidal activity against legionella of chemical disinfectants for water systems

EN 13,624

• Quantitative suspension test for evaluation of fungicide activity or levuricide in medicine

EN 13,704

 Quantitative suspension test for the evaluation of sporicide activity of chemical disinfectants used in agri-food, industry, domestic and community

EN 13,727

· Quantitative suspension test for evaluation of bactericidal activity in medicine

EN 13,348

 Establishes requirements, sampling methods, testing methods and delivery conditions for copper tubes

EN 1650

• Quantitative suspension test for the evaluation of *fungicide activity or levuricide* of antiseptics and chemical disinfectants used in the agri-food, industrial, domestic and community fields

EN 14,561

 Quantitative germ door test for evaluation of bactericidal activity for instruments used in human medicine

EN 14.562

 Quantitative germ door test for evaluation of fungicide activity or levuricide for instruments used in human medicine

EN 13,697

Quantitative non-porous surface test for the assessment of bactericidal and/or fungicide activity
of chemical disinfectants used in agri-food, industry, domestic and community





[Peracetic Acid]

Efficiency Tests (Continued)

Product	Test protocol	Test micro-organisms	Test Conditions	One-Touch™ inhouse results
	EN 1040	Pseudomonas aeruginosa Staphylococcus aureus	20°C; 5 min. 20°C; 5 min.	1
	EN 1276	Pseudomonas aeruginosa Staphylococcus aureus Escherichia coli Enterococcus hirae	20°C; 5 min. 0,03% BA 20°C; 5 min. 0,03% BA 20°C 5 min. 0,03% BA 20°C; 5 min. 0,03% BA	\frac{1}{4}
Ventum® One-Touch™	EN 1275	Candida albican Sacharomyces Aspergilus niger	20°C; 5 min. 0,03% BA 20°C; 5 min. 0,03% BA 20°C; 5 min. 0,03% BA	√ √ √
	EN 1650	Candida albican Sacharomyces Aspergilus niger	20°C; 5 min. 0,03% BA 20°C; 5 min. 0,03% BA 20°C; 5 min. 0,03% BA	✓ ✓ ✓
	EN 13704	Bacillus cereus	20°C; 5 min. 0,03% BA	✓

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