Product Data Sheet



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 $C_2H_4O_3$ Form Colorless liquid Odor Vinegar Density 1.01 Sterile SAL of 1×10^{-6}

For further information, please contact:

Ventum Biotech

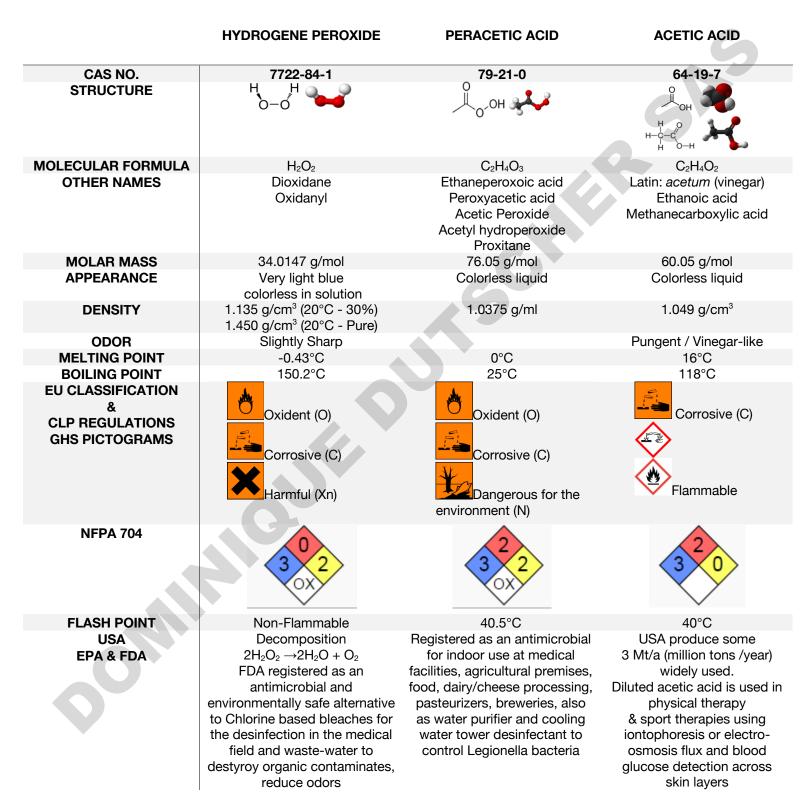
Cap Omega Rond Point Benjamin Franklin Montpellier, France

FR +33 4 67 75 56 12 US +1 (646) 450-4582 ventumbiotech.com

Product Data Sheet



Product summary



2/10

Product Data Sheet



Test & Efficiency Procedure

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

- Bio Safety Cabinet (BSC Type II): 2m³
- Vertical Laminar Air Flow Workstation (VLAFW): 5m³
- Weighing Station (WS): 10m³
- Intensive Care (IC): 50m³
- 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
 - Positive tests for the coupons | Negative tests for the media
- Chemical Indicators (CI):
 - Test for acetic acid from clear to dark color indication by pH measuring

INDICATOR	TANK CAPACITY [ML]	BLEND [ML]	VOLUME [M ³]
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

Product Data Sheet



Test & Efficiency Procedure (Continued)

TYPE	BI POSITIVE	BI NEGATIVE	CI POTITIVE	CI NEGATIVE	BSC Type II	VLAFW	WS	IC	SR
CI 1	1	\checkmark	\checkmark	\checkmark	Positive	Positive	Positive	Positive	Positive
CI 2	\checkmark	\checkmark	\checkmark	\checkmark	Positive	Positive	Positive	Positive	Positive
CI 3	1	\checkmark	\checkmark	\checkmark	N.A.	N.A.	Positive	Positive	Positive
CI 4	\checkmark	\checkmark	\checkmark	\checkmark	N.A.	N.A.	N.A.	Positive	Positive
CI 5	1	\checkmark	\checkmark	\checkmark	N.A.	N.A.	N.A.	Positive	Positive
BI 1 (10⁴)	\checkmark	\checkmark	\checkmark	\checkmark	Limpid	Limpid	Limpid	Limpid	Limpid
BI 2 (10⁵)	1	\checkmark	\checkmark	\checkmark	Limpid	Limpid	Limpid	Limpid	Limpid
BI 3 (10 ⁶)	\checkmark	\checkmark	\checkmark	\checkmark	Limpid	Limpid	Limpid	Limpid	Limpid
BI 4 (10 ⁶)	1	\checkmark	\checkmark	\checkmark	Limpid	Limpid	Limpid	Limpid	Limpid
BI 5 (10 ⁶)	\checkmark	\checkmark	\checkmark	\checkmark	N.A.	N.A.	Limpid	Limpid	Limpid
BI 6 (10 ⁶)	1	\checkmark	\checkmark	√	N.A.	N.A.	N.A.	Limpid	Limpid
BI 7 (10 ⁶)	\checkmark	\checkmark	\checkmark	\checkmark	N.A.	N.A.	N.A.	Limpid	Limpid
BI 8 (10 ⁶)	\checkmark	\checkmark	\checkmark	J	N.A.	N.A.	N.A.	Limpid	Limpid
BI 9 (10 ⁶)	\checkmark	\checkmark	1	V	N.A.	N.A.	N.A.	N.A.	Limpid
BI 10 (10 ⁶)	√	\checkmark	\checkmark	\checkmark	N.A.	N.A.	N.A.	N.A.	Limpid

Ventum[®] One-Touch[™] Product Data Sheet



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 <u>ventumbiotech.com/technical-data</u>

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.

Ventum[®] One-Touch[™] Product Data Sheet



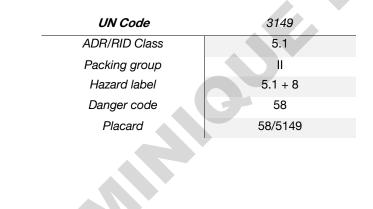
CHARACTERISTIC	UNIT	VALUE	
SPECIFIC GRAVITY	m ³	1.1	
FREEZING POINT	°C	-30	
AVAILABLE OXYGEN	Weight %	~10.5	
FLASH POINT		N/A	

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)



Product Data Sheet



List of compatible materials



Synthetic Materials

NAME	ISO SYMBOL	QUALIFICA TION
POLYTETRAFLUORETHYLE NE	Ptfe	А
ETHYLENE-PROPYLENE FLUORIDATED	Eff	Α
ALKOXY PER FLUORIC	Afp	Α
ETHYLENE TETRAFLUORETHYLENE	ETFE	Α
POLY VINYLIDENE FLUORIDE	PVDF	Α
POLYAMIDE	pa	В
POLYOXYMETHYLENE	POM (H)	В
POLYOXYMETHYLENE	POM (C)	C
ETHYLENE TEREPHTHALATE POLYTEREPHTHALATE	PETP	Α
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

Product Data Sheet



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	Α
BUTADIENE- ACRYLONITRILE RUBBER (CAOUTCHOUC AU NITRIL/PERBUNAN N)	NBR	В
CHLOROPRENE RUBBER (NEOPREN)	cr	Α
RUBBER CHLOROSULFONYLE- POLYETHYLENE (HYPALON)	Msc	Α
POLYACRYLATE RUBBER RUBBER EPICHLORHYDRIN	Acm ECO/CO	C B
ETHYLENE RUBBER PROPYLENE	EPDM/EP M	Α
SILICONE RUBBER FLUORIDATED SILICONE	MQ/MVP MFQ	B
RUBBER 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)

Product Data Sheet



Efficiency Standards

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

Product Data Sheet



Efficiency Standards (Continued)

Product	Test protocol EN 1040	Test micro-organisms Pseudomonas aeruginosa	Test Conditions20°C; 5 min.20°C; 5 min.	One-Touch™ inhouse results √ √
	EN 1276	Staphylococcus aureus 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%	
Ventum® One-Touch™	EN 1275	Candida albican Sacharomyces Aspergilus niger	BA 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	\checkmark \checkmark
	EN 13704	Bacillus cereus	20°C; 5 min. 0,03% BA	\checkmark

To our present knowledge the information contained herein is accurate as of the date of this document. However, neither Ventum Biotech nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use in compliance with relevant legislations and whether any patents are infringed. Ventum Biotech reserves its right to make additions, deletions, or modifications to the information at any time without prior notification.