

# HeiQ Viroblock NPJ03 – Certificates of competence

**Proved efficacy and confirmed safety** 

June 2020





### **Certificate overview**

- 1) Antimicrobial Tests
  - 1)AATCC 100 (Staphylococcus aureus and Candida albicans)
- 2) Antiviral Tests
  - 1)ISO 18184 (H3N2 Human Influenza A)
  - 2)ISO 18184 (Corona Virus 229E)
  - 3)SARS-CoV-2
  - 4)ISO 20743 with Sendai Virus
- 3) Skin Compability Tests
  - 1)Human Patch Test
  - 2) Extractable Study: Dynamic airflow conditions
  - 3)Cytotoxicity
- 4) Listings
  - 1)Oeko-Tex
  - 2)ZDHC- Gateway
  - 3)Bluesign
  - 4)INCI cosmetic grade ingredient
  - 5)USDA (pending)
- 5) Registrations



# **Antimicrobial activity of treated textiles**

AATCC TM 100

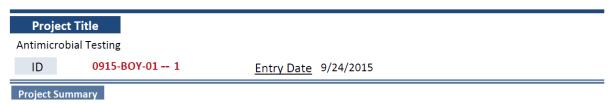


## **Determination of antimicrobial activity - AATCC 100**



### Customer Report

Wednesday, October 07, 2015



The **AATCC TM 100** test method is designed to measure the antimicrobial properties of textile or absorbent material incubated with selected microorganisms. The basis of the test methods is the incubation of the microorganism inoculum in contact with the test sample for a duration of up to 24 hours without drying. Following this exposure, the inoculated microorganisms are recovered and the concentration of the organisms is determined. Candida albicans was tested according to the standard method, culturing C. albicans prior to testing was conducted as required by the organism.

The antimicrobial performance is determined by comparison of the recovered organisms from the test samples at time 0, and treated material after selected time points and is reported as a percent value relative to the control sample material.



# **Determination of antimicrobial activity - AATCC 100**

	Result Table *					
Test Metho	Test Method AATCC 100 Assessment of Antibacterial Finishes on Textile Materials					
Sample #	1 TBD Fabric					
		Interval	Result			
Inoculum C.	albicans (10231)					
Notes Section						
replicate 1		<b>24</b> hr	99.68 % Reduction			
replicate 2		<b>24</b> hr	99.91 % Reduction			
replicate 3		<b>24</b> hr	99.86 % Reduction			
Inoculum S.	aureus (6538)					
Notes Section						
replicate 1		<b>24</b> hr	99.99 % Reduction			
replicate 2		<b>24</b> hr	99.99 % Reduction			
replicate 3		<b>24</b> hr	99.99 % Reduction			



# **Antiviral Activity of textile products**

ISO 18184, ISO 20743 (modif. for sendai virus)



# **Determination of antiviral activity - ISO 18184**

Nonwoven\* material for disposable masks treated with HeiQ Viroblock NPJ03:

ID	Agent	Log reduction	% reduction
LS20-00319-6	H3N2 (Human Influenza A)	4.72	99.99%

The HeiQ ViroblockNPJO3 treated nonwoven material shows **excellent antiviral efficacy!** 





# **Determination of antiviral activity - ISO 18184**





			分	析	检 测	报	告		ď.
				REPORT	FOR AN	ALYSIS			è
编号 (I	Report N	.) 2020FM	103839R06	校验码	(Verificat	ion Co	de): 4	562378	ŧ
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样品名称 Name of Sample	LS20-00319-6	检测类型 Test Type	委托检测
委托单位 Applicant	瑞士海蛇科材料有限公司上海代 表处	地 址 Address	上海市徐汇区裕總路 168 号徐油 商务大厦 2011
样品来源 Sample Source	委托方送检	样品数量 Sample Quantity	1 )\race of pastic sample
样品规格和批号 Spec and Lot No of Sample	NON-WOVEN MATERIALS TREATED WITH VIROBLOCK 29% WOF VIROBLOCK 20、FA2040	样晶状态和特性 State and Characteristic	片状 "
接样日期 Sample Received Dute	2020-03-03	检测完成日期 Completion Date	2020-04-01
检测依据和方法 Test Standard and Method	Legista Legista Legista Legista Legista L	ISO 18184:2014	Legito Legito Legito Legito Legito
检测项目 Item Tested	o critto critto critto critto critto	抗病毒活性 ^	NTHIRM, EFFICACY
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	of Selection Selection Selection Selection		
检测结论 Test Conclusion	该样品所检项目的实测数据见本格 PLEASE FIND IN FOLLOWING PAGES THE TEST RE		Server Se
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### 报告编号 (Report №.): 2020FM03839R06

NAME OF VIRUS 病毒名称	EXPERIMENT ID 实验 序号	CONTROL CONDITION AT ZERO HOUR 对照样接种孵育 0h 后 病毒滴度的对数值 (IgTCID <sub>50</sub> /瓶)	control condition at 2 Hours 对照样接种孵育 2h 后 病毒滴度的对数值 (IgTCID <sub>50</sub> /瓶)	FABRIC SAMPLE AT 2 HOURS 试样接种孵育 2h 后病 毒滴度的对数值 (IgTCID <sub>50</sub> /瓶)
INFLUENZA H3N2  中型流感病毒	(62) (62)	6.63	6.42	1.8 1 1.8 1
H3N2 MDCK 细胞	2 .	6.59 (Sinh Legis	6.50	6
Gnide Gnide Gnide	Gridge	nid <sup>o</sup> chid <sup>o</sup> 6.59 chid <sup>o</sup> ch	6.63 chicks of	<1.8
lgTCID <sub>50</sub> /瓶 平均数 A		6.60	(6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6.52 < 6	<1.8 < <sup>1</sup>
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抗病毒活性率( % REDUCTION	(%)	rito Grito Grito Grito Grito Gri		rito Testi o T

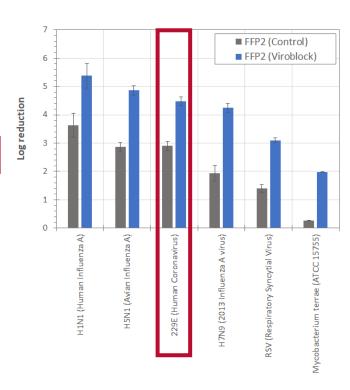


# **Determination of antiviral activity - ASTM F2101**

		L	og reduction		% redi	uction
Study ID	Agent	Control	HeiQ Viroblock	Δ*	Control	HeiQ Viroblock
798- 110	H1N1 (Human Influenza A)	3.63	5.38	>50x	99.9766 %	99.9996
798- 111	H5N1 (Avian Influenza A)	2.86	4.86	100x	99.862%	99.999%
798- 112	229E (Human Coronavirus)	2.90	4.48	>30x	99.874%	99.997%
798- 114	H7N9 (2013 Influenza A)	1.93	4.24	>200x	98.825%	99.994%
798- 115	RSV (Respiratory Syncytial Virus)	1.40	3.10	>50x	96.02%	99.92%
798- 116	Mycobacterium terrae (ATCC 15755)	0.26	1.98	>50x	45.05%	98.95%

HeiQ Viroblock FFP2 masks\* show **greatly (>30 times) improved reduction** in virus infectivity.

Effective against key virus types: H1N1, H5N1, H7N9, Coronavirus (229E), and RSV





# **Strong antiviral effect on SARS-CoV-2 (COVID-19)**

- 100% polyester woven treated with HeiQ Viroblock NPJ03
- Testing against SARS-CoV-2, an enveloped virus from the coronavirus family that causes COVID-19

Two laboratory test methods were used to assess the residual infectivity of virus remaining on inoculated fabric samples after a contact time of 30 minutes:

	Sample	Avg. Log TCID <sub>50</sub> /ml	Log reduction *	% reduction *
est A	Inoculum	5.9		
<u>je</u>	HeiQ Viroblock treated sample	0.0	5.9	>99.999%
	Sample	Ave LogTCID/ml	Log roduction *	% roduction *

m	Sample	Avg. Log TCID <sub>50</sub> /ml	Log reduction *	% reduction *
	Inoculum	5.0		
	Inoculum  HeiQ Viroblock treated sample	1.0	4.0	99.99%

Doherty Report on "Viral Stability and Persistence of SARS-CoV-2 on Treated Material Experimenter, Dr Italie McAules cells. When compared to the universed controls the PGLD<sub>et</sub> value will give quantitative One of the first textile technologies in the world to be proven effective against SARS-CoV-2 in the laboratory irmed by change in anteclave tape colour, bag indicator colour and via a negative ANTIVIRAL effect demonstrated against SARS-CoV-2 within 30 minutes

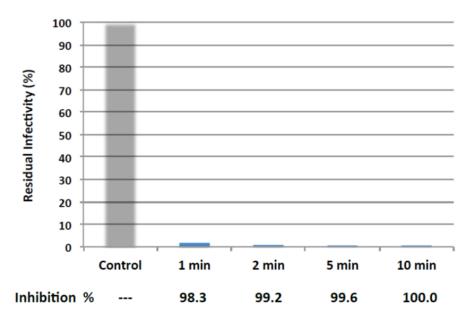
<sup>\*</sup> Reduction relative to inoculum values after 30 minutes



### **Instantaneous Antiviral Effect on Sendai Virus**

- Nonwoven fabric treated with HeiQ Viroblock NPJ03
- The residual virus infectivity tested according to the modified ISO 20743 method (Sendai virus)





RAPID ANTIVIRAL effect demonstrated within 2 to 5 minutes



# **Skin compability**

 Human Patch Test, Dynamic Airflow Test & Cytotoxity



# **Human patch test**

HeiQ Viroblock NPJ03 treated fabric:

**Human Patch Test** 

Dear Valued Customer,

By means of this letter we inform you that HeiQ Viroblock NPJ03 treated fabric has been DERMATOLOGICALLY TESTED at Farcoderm srl (in collaboration with the University of Pavia) and demonstrated a perfect skin compatibility.

The subsequent test report sets out that the HeiQ Viroblock NPJO3 treated fabric shows to be "NON IRRITANT".

In reference to the test: "Fabric sample 8" is a polypropylene non-woven fabric sample that was finished with the surface treatment "HeiQ Viroblock NPJO3".

lejQ Materials AG

Marl⁄ Mckay

Director of Compliance and Quality



# **Human patch test**



In collaboration with:
University of Pavia
Prof. FULVIO MARZATICO
Laboratory of Pharmacobiochemistry
Pharmacology and Toxicology Division

#### REPORT ON A HUMAN PATCH TEST

48 hour closed patch test under occlusion

Skin test to evaluate potential skin irritation after contact with a non-woven fabric

HEIQ MATERIALS AG

**FABRIC SAMPLE "8"** 

### 

#### Table 2 - Classification of the medium irritation index (according to the amended Draize classification).

Strong oedema (extended swelling even beyond the application area)

Mean Irritation Index (IIM)	Product classification
< 0,5	non irritating
from 0.5 to 2.0	slightly irritating
from 2.0 to 5.0	moderately irritating
from 5.0 to 8.0	highly irritating

#### RESULTS

Summary of the data obtained and evaluation of the product irritation potential

#### OEDEMA AND ERYTHEMA REACTIONS

Par	nellist name	Sex	ERYTHEMA 15'	OEDEMA 15'	ERYTHEMA 1h	OEDEMA 1h	ERYTHEMA 24h	OEDEMA 24h
1	D046G	M	0	0	0	0	0	0
2	D004G	F	0	0	0	0	0	0
3	G032T	F	0	0	0	0	0	0
4	P093C	F	0	0	0	0	0	0
5	S030E	F	0	0	0	0	0	0
6	D041L	F	0	0	0	0	0	0
7	S093S	M	0	0	0	0	0	0
8	L025G	M	0	0	0	0	0	0
9	L109C	F	0	0	0	0	0	0
10	P090D	M	0	0	0	0	0	0

#### MEAN VALUES FOR OEDEMA AND ERYTHEMA





# **Extractable study: Dynamic airflow condition**

### 3.2 Summary: Extractables study

- Purpose: Assess potential for FFP2 masks treated with Viroblock to release particulates and/or components of the treatment during conditions of dynamic airflow through the mask.
- Testing was conducted using a custom protocol. Test mask samples were mounted and sealed within a test chamber and subject to a constant airflow for a period of 8 hours. Periodic sampling of the air exiting the mask samples were analysed for total particulates and also prescence of chemical compounds present in the mask treatment.
- Additional analysis was performed to quantify the presence of chemical compounds in the mask treatment.
- FFP2 masks treated with Viroblock subject to dynamic airflow conditions over a period of 8 hours did not show release of particulates or chemical compounds into the airstream exiting the mask.



# **Extractable study: Dynamic airflow condition**



### Extractables from Facemasks – Dynamic Flow Conditions

Aspen Project No. A47347

Prepared for

WuXi, AppTec, Inc. Janine Viveiros 2540 Executive Dr. St. Paul, MN 55120

aspen research corporation 8401 jefferson highway maple grove, mn 55369 CONFIDENTIAL REPORT

#### **Samples Tested**

Sample Description	ARC ID	Date Received	Date(s) Analyzed
Control FFP2 masks, lot VB-DEV-FEB-2013 (4 masks provided)	47347-5	4/1/13	4/9/13 – 4/10/13
Viroblock Test FFP2 masks, lot VB-DEV-7- FEB-2013 (7 masks provided)	47347-6	4/1/13	4/11/13 – 4/15/13

The results presented in this report apply only to the samples tested. Unless noted otherwise, the samples were received in good condition.



# **Cytotoxicity**

- 3.3 Summary: Cytotoxicity
- Purpose: Assess in vitro toxicity of FFP2 masks treated with Viroblock towards mammalian cells.
- Method based on an agarose overlay assay according to ISO 10993-5:2009 <sup>6</sup> with L-929 mouse fibroblast cells. Testing conducted under GLP study design and protocol.
- FFP2 masks treated with Viroblock were concluded to be non-cytotoxic.



# **Cytotoxicity**



#### FINAL STUDY REPORT

STUDY TITLE: ISO Agarose Overlay

Using L-929 Mouse Fibroblast Cells

PROTOCOL NUMBER: 140150-17

TEST ARTICLE IDENTIFICATION: FFP2 facemasks

Lot # VB-DEV-7FEB-2013-0

PERFORMING LABORATORY: WuXi AppTec, Inc.

2540 Executive Drive St. Paul. MN, 55120

SPONSOR:

VIROBLOCK SA Chemin des Aulx 18 Plan-les-Ouates CH-1228

STUDY NUMBER: 182077

CLIENT MNEMONIC: VRB01

RESULT SUMMARY: The test article is considered non-cytotoxic under

the conditions of this test.

Table 2: Scoring

Grade	Reactivity	Description of Reactivity Zone
0	None	No detectable zone around or under specimen.
1	Slight	Some malformed or degenerated cells under specimen.
2	Mild	Zone limited to area under specimen.
3	Moderate	Zone extending specimen size up to 1.0 cm.
4	Severe	Zone extending farther than 1.0 cm. beyond specimen.

Table 3: Test Results

	Cytotoxic Score			
Test Article	Plate 1	Plate 2	Plate 3	
Test Article	1	1	1	
Positive Control	3	3	3	
Negative Control	0	0	0	
Cell Control		0		

#### ANALYSIS AND CONCLUSION

The positive control score was '3' and the negative control score was '0' indicating a valid test. The test article was scored at '1' and is considered **non-cytotoxic** under the conditions of this test.



# Listings

Oeko-Tex, Bluesign & ZDHC Gateway



### **Oeko-Tex**

### HeiQ Viroblock NPJ03 is listed for Oeko-Tex

https://www.oeko-tex.com/en/apply-here/active-chemical-products/accepted-acps?tx\_solr%5Bq%5D=heiQ

Name of the product	Country	Manufacturer	Type of ACP	Type of Chemical	Product class
HeiQ Viroblock NPJ03	CH	HeiQ Materials AG, Bad Zurzach	Products with biological activity	Auxiliary	I-IV

Product class I: Articles for babies and toddlers

Product class II: Articles with direct contact to the skin

Product class III: Articles without direct contact to the skin

Product class IV: Home textiles



# Bluesign

Product: HeiQ Viroblock NPJ03

Status: Filed: In Homologation



The independent industry textile standard

HeiQ Materials hereby informs customers that for HeiQ Viroblock NPJO3; whilst bluesign approval is not yet finalised this product is now in the process for homologation according to the bluesign® Criteria.

HeiQ anticipates no adverse issues to arise during this process and will update partners immediately once the assessment is completed and the product gains its official bluesign® approval.

HeiQ Materials AG

Director of Compliance and Quality

HeiQ Materials AG is a bluesign® System Partner



### **ØZDHC**

HeiQ Materials AG hereby declares its commitment to the ØZDHC initiative and our intention to support all our clients in adherence to the Roadmap to Zero Discharge of Hazardous Chemicals.



Manufacturing Restricted Substances List (MRSL), version 2, Jan 2020.

#### Declaration

Product: HeiQ Viroblock NPJ03

With regards to the Manufacturing Restricted Substances List; HeiQ Materials AG can state that provided the above product is applied and used according to our recommendations it may be used for manufacture of textiles and articles, which will meet the criteria for compliance with the ZDHC MRSL 2020 limits and restrictions. Listing in the ZDHC Gateway is pending.

HeiQ Materials AG

Mark Mckay

Director of Compliance and Quality



## **INCI cosmetic grade ingredient**



Via N. Sauro, 11 (Loc Ponte Giurino) 24/30 BERBENNO (BG) + 14/30 tel +39 035-4195181 fax + 39 035-4824837 info spe@aspecialities.ti C.F., p.Iva e Reg.Imp. BG 02310010166 REA n.279484 − Cap Soc € 100 000,00 i.v. Codice SDI: WTYVJK9



Berbenno, 25 June 2020

HeiQ Materials AG Ruetistrasse 12 8952 Schlieren (Zurich) Switzerland

Ref: VIROBLOCK NP J03 - INCI COMPONENTS

We declare that all the components of the product VIROBLOCK NP J03 are included in the INCI database. The documentation is available for specific requests.

Belli Fabrizio

- All components of HeiQ Viroblock NPJ03 are included in INCI () database
- HeiQ Viroblock NPJ03 is 100% made of cosmetic ingredients



# **Bio-based ingredients (USDA application pending)**



- HeiQ Viroblock NPJ03 is 72% bio-based
- USDA bio-preferred label, application pending

72 % Biobased Carbon Content (as a fraction of total organic carbon)



# Registrations

### **US EPA**

- 49403-38-81446
- 85249-1-81446

### **EU BPR**

N-91819 (D)

### **US FDA**

FFR Respirators

HVP-FFP2-01

https://www.fda.gov/media/136702/download

### FOR REGISTRATION

June 18, 2020 Doc. Id 568170

of Environmental Conservation Division of Solid & Hazardous Materials

#### HeiO Viroblock NPJ03

An antimicrobial additive designed to -withstand high temperatures in the manufacture of yarns, filaments, fibers, fiber masterbatches textile-finishes, textile coatings and knitted, woven or nonwoven textile fabrics. Intended for commercial and industrial use, in manufacturing, formulating and fabricating of treated article products specified in the use directions.

\* includes particles in the size range between 1 and 100 nm

#### KEEP OUT OF REACH OF CHILDREN CAUTION

#### PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse

HeiQ Viroblock NPJ03 is packaged in water-soluble packets, which when used correctly, qualify as a closed loading system. Handlers handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced personal protective equipment (PPE) of long-sleeved shirt, long pants, shoes, and socks. Handlers shall exercise care to avoid tearing or puncturing the packaging and releasing HeiQ Viroblock NPJ03 powder. Because there is a chance that accidental release of HeiQ Viroblock NPJ03 powder may occur, handlers should have ready access to additional PPE including a NIOSH approved full-face respirator with high-efficiency or P100 filters or cartridges, gloves, and overalls or a Tyvek® suit during powder handling. The gloves shall be chemically resistant to all of the components of the textile fiber master batch or coating formulations to which HeiQ Viroblock NPJ03 is added.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison center or doctor for treatment advice. IF INHALED: Move the person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED. Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on foreduct, use, etc.) call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week.

During other times, call the poison control center 1-800-221222.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and birds. Do not discharge effluent containing this product into lakes, streams, ponds estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

#### This product may not be used for any applications involving food contact, food packaging, or drinking water.

HeiQ Viroblock NPJ03 is an antimicrobial additive for commercial and industrial use. It is designed to be incorporated into materials and intermediate polymer and costing solutions during the manufacturing process to impact durable antimicrobial and preserving activity to manufactured products. The product suppresses the growth of ofor, stain, discoloration, degradation or communication causing microbes. If minicrobial activity in the manufacturing product could lead to impleasant odors, discoloration, descriptions or communication of the product, then such claims may be made for the manufacturing openior. Manufacturing the openior in acceptanting HeQ Verblock (NSW) may not make any policie hashit chima relating to nationabul certainy without five obtaining to ESA sequencing for the Mass incorporated in treasted articles. However, the sequence of the contraction of the national contraction of the contraction of the contraction of the contraction of the sequence of the contraction o

He(f) Welsheck (NSS) may be used in americal and intermedieus polymer and conting and finishing systemic that may be incorporated into the reasts of earlies in the Section For conting of finishing systemic polymer and finishing systemic polymers using solution, in the final section section any committee and tender special of others. For all other applications, the final world service are contain from 0.021% to 0.01% by weight) of others. Contact Bail Quinterlain AG to denomine the appropriate amount of HeQ(Versheller, NSS) for interhelical final deprehens.

#### **Produktdatenblatt**

#### Datenblatt: Meldung eines Biozid-Produktes nach ChemBiozidMeldeV

Unter Zugrundelegung der von Ihnen gemachten Angaben wurde Ihnen eine mit "N" beginnende Registriernummer zugewiesen. Alle in dem Biozid-Produkt "HeiQ Viroblock NPJ03" enthaltenen Wirkstoffe sind für die gewählte/n Produktart/en in Anhang II der Delegierten Verordnung (EU) Nr. 1062/2014 gelistet. Ohne vorherige Zulassung darf dieses Biozid-Produkt gemäß § 28 Absatz 8 des Chemikaliengesetzes, sofern die weiteren Voraussetzungen ebenfalls erfüllt sind, bis zur Entscheidung der Genehmigung des/ der Wirkstoff/e auf dem Markt bereitgestellt werden, längstens jedoch bis zum 31. Dezember 2024. Der aktuellen Status der maximalen Verkehrsfähigkeit (ChemBiozidmeldeV) Ihres Biozidproduktes wird Ihnen unter "gemeldetes Biozid-Produkt" angezeigt.

#### GEMELDETES BIOZID-PRODUKT

Handelsname:	HeiQ Viroblock NPJ03
Registriernummer:	N-91819
Meldedatum:	04.05.2020
Maximale Verkehrsf ähigkeit (ChemBioz idMeldeV):	31.12.2024  Das Biozidprodukt kann für die Dauer des Genehmigungsverfa hrens des Wirkstoffs bzw. des letzten zu genehmigenden Wirks toffs ohne Zulassung auf dem Markt bereitgestellt werden.
Hinweis:	
Aktiv:	Ø

#### WIRKSTOFFE (ANHANG II)

Wirkstoffname	Reaktionsmasse von Titandioxid und Silberchlorid	
CAS-Nr.		
EC-Nr.		
PT	9	
Produktart	Schutzmittel für Fasern, Leder, Gummi und polymerisierte Materi alien	

https://www.baua.de/DE/Biozid-Meldeverordnung/Produktverwaltung/ProduktDetails... 04/05/2020

BAuA - Biozidmeldeverordnung - Details zum Produkt - Bundesanstalt für Arbeitssc... Page 2 of 2



# Differentiate. Innovate.

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