

glove<sup>en</sup>



COATS

Colloidal Oatmeal System



**Nitrile & Latex Powder Free  
Colloidal Oatmeal Coated Gloves**

# WHAT IS COATS

COATS® is an acronym for Colloidal Oatmeal System. It is a patented glove coating technology which contains a clinically proven skin protectant.

## Colloidal Oatmeal System



## THE NEXT REVOLUTION

As early as 2,000 B.C., the Arabians and the Egyptians have long used oats to beautify their skin. The ancient Greeks and Romans documented the use of “oat baths” to heal skin ailments. Even today, it is still used as a soothing agent to relieve itch and irritation associated with various xerotic dermatoses.

Realising the unique and powerful therapeutic benefits of colloidal oat, HARTALEGA was able to combine this knowledge with its innovative glove making technology to give you GloveOn COATS® – the next revolutionary glove.

Users who often suffer from dry and itchy skin, due to constant hand washing and glove use, can now rely on GloveOn COATS® colloidal oatmeal to help maintain the natural moisture barrier as they work with their hands.

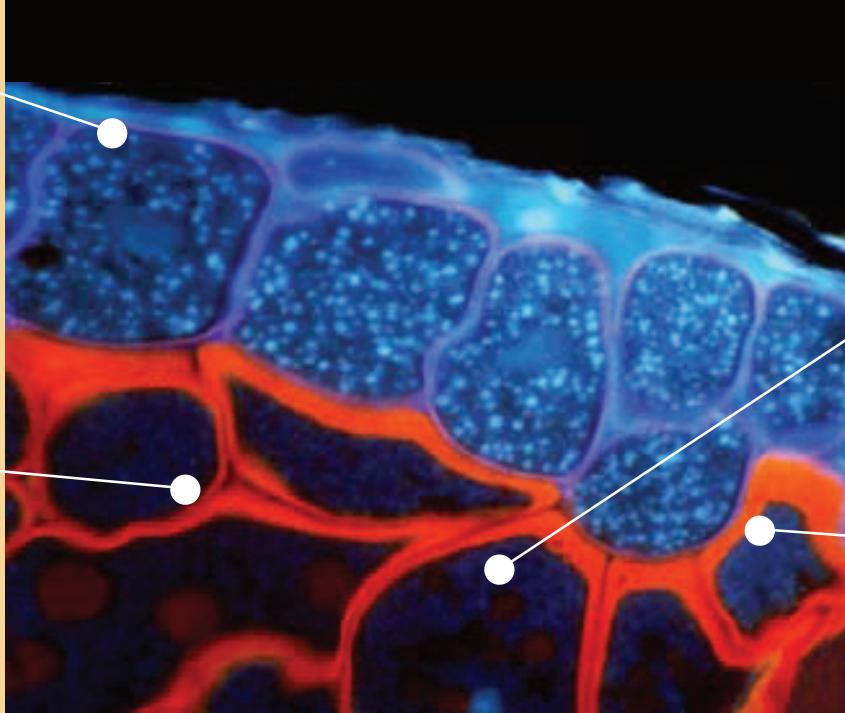


# DISCOVER THE POWER IN COATS

Colloidal Oatmeal is the concentrated starch-protein complex of oatmeal prepared from finely ground dehulled oats. GloveOn COATS® many active ingredients can give you so much more benefits you can enjoy in a glove.

**Oat Actives**  
Avenanthramides  
Avenacins  
Flavonoids Simple  
& Complex  
Phenolics

**β Glucan**



**Lipids**  
Sterols  
Alkyl phenolates  
Tocopherols

**Starch Granule**

<b>Avenanthramides</b>	Anti-irritant and redness reduction (anti-histamine effect).
<b>Avenacins</b>	Anti-inflammatory and immuno-regulatory properties in the treatment of atopic dermatitis (AD). Skin cleansing properties through sebum sequestering.
<b>Flavonoids</b>	Antioxidants.
<b>Phenolics</b>	Antioxidants and prevention of lipid peroxidation.
<b>β-Glucan</b>	Moisturizing and wound healing (immuno-stimulant).
<b>Lipids/Oils</b>	65% triglyceride, Vitamin E, phospholipids. Effective emulsifying and antioxidant activity.
<b>Starch</b>	Adsorption and absorption properties. Physical barrier.
<b>Oat Peptides</b>	Collagen and elastin promoters by stimulation of the fibroblasts. Skin pH Buffering.







# gloveon COATS®

Colloidal Oatmeal System

## Nitrile Exam Gloves Powder Free, Standard Cuff

GloveOn® COATS® (colloidal oatmeal system) is a patented and unique nitrile glove technology, which contains an FDA-recognised skin protectant. These utilise the powerful benefits of all-natural oats as a coating that forms a natural, moisturising barrier between the glove and skin. This acts as a preventative measure against skin irritation and hydration dermatitis. Therefore, users who suffer from dry and itchy skin can now use GloveOn® COATS® to protect their hands while they work.



COATS® Nitrile		
Length (mm)	≥ 230	
Thickness Measurements (mm)		
Palm (centre of Palm)	0.07 ± 0.02	
Finger (13mm ± 3mm from tip)	0.09 ± 0.02	
Physical Properties	Before Ageing	After Ageing
Tensile Strength (MPa)	≥ 18	≥ 16
Elongation (%)	≥ 500	≥ 400
Inspection Levels & AQL	Inspection Level	AQL
Watertightness	G1	1.5
Physical Dimensions	S2	4.0
Tensile Strength	S2	4.0
Visual Inspection (Major)	S4	2.5
Visual Inspection (Minor)	S4	4.0
Particulate Residue	N = 5	≤ 2mg/glove
Colloidal Oatmeal Content	N = 5	≥ 5mg/glove

### REORDER CODE

CTS38XXS	XX-SMALL
CTS38XS	X-SMALL
CTS38SS	SMALL
CTS38MM	MEDIUM
CTS38LL	LARGE
CTS38XL	X-LARGE

### FEATURES

- Fingertip textured
- Powder free
- Not made with natural rubber latex
- Chemo drugs tested
- Lab chemical tested
- Ambidextrous
- Standard cuff
- Dawn blue colour

### PACKAGING

200 gloves per box for XXS to L  
180 gloves per box for XL  
10 boxes per carton

### REGULATORY COMPLIANCE

TGA - ARTG 164563, FDA 510(k),  
MDD 93/42/EEC, REACH, EU 10/2011,  
EC 1935/2004

### STANDARDS

ASTM D6319, EN 455 part 1, 2, 3 & 4,  
EN 1186, EN 13130, CEN/TS 14234,  
EN 420, EN 374 part 1, 2 & 3,  
HACCP certified

### PATENTS

Patent 7,691,436; Patent 7,718,240;  
Patent 7,740,622; Patent 8,075,965;  
Patent 8,458,818

### MANUFACTURING ACCREDITATIONS

ISO 9001:2015  
ISO 13485:2003  
EN ISO 13485:2012

Chemotherapy Drugs and Concentration  
(Tested for Resistance to Permeation by Chemotherapy  
Drugs as per ASTM D6978-05 Test Report PN 115513)

Minimum Breakthrough  
Detection Time (minutes)

Carmustine (BCNU), 3.3mg/ml (3,300 ppm)	0.7 minutes
Cisplatin, 1.0mg/ml (1,000 ppm)	>240 minutes
Cyclophosphamide (Cytosan), 20.0mg/ml (20,000 ppm)	>240 minutes
Dacarbazine (DTIC), 10.0mg/ml (10,000 ppm)	>240 minutes
Doxorubicin Hydrochloride, 2.0mg/ml (2,000 ppm)	>240 minutes
Etoposide (Toposar), 20.00mg/ml (20,000 ppm)	>240 minutes
Fluorouracil, 50.0mg/ml (50,000 ppm)	>240 minutes
Methotrexate, 25.0mg/ml (25,000 ppm)	>240 minutes
Mitomycin C, 0.5mg/ml (500 ppm)	>240 minutes
Paclitaxel (Taxol), 6.0mg/ml (6,000 ppm)	>240 minutes
Thiotepa, 10.0mg/ml (10,000 ppm)	1.2 minutes
Vincristine Sulfate, 1.0mg/ml (1,000 ppm)	>240 minutes

**WARNING:** Carmustine and Thiotepa, at the tested concentration, degraded COATS® nitrile glove at 0.7 minutes and 1.2 minutes, respectively. The safe use of gloves in chemotherapy treatment is solely the decision of clinicians authorised to make such decision.



## Latex Exam Gloves Powder Free, Standard Cuff

GloveOn<sup>®</sup> COATS<sup>®</sup> (colloidal oatmeal system) is a patented and unique latex glove technology, which contains an FDA-recognised skin protectant. These utilise the powerful benefits of all-natural oats as a coating that forms a natural, moisturising barrier between the glove and skin. This acts as a preventative measure against skin irritation and hydration dermatitis. Therefore, users who suffer from dry and itchy skin can now use GloveOn<sup>®</sup> COATS<sup>®</sup> to protect their hands while they work.



COATS <sup>®</sup> Latex		
<b>Length (mm)</b>		
	≥ 230	
<b>Thickness Measurements (mm)</b>		
Palm (centre of Palm)	0.11 ± 0.03	
Finger (13mm ± 3mm from tip)	0.12 ± 0.03	
<b>Physical Properties</b>	<b>Before Ageing</b>	<b>After Ageing</b>
Tensile Strength (MPa)	≥ 18	≥ 16
Elongation (%)	≥ 650	≥ 500
<b>Inspection Levels &amp; AQL</b>	<b>Inspection Level</b>	<b>AQL</b>
Watertightness	G1	1.5
Physical Dimensions	S2	4.0
Tensile Strength	S2	4.0
Visual Inspection (Major)	S4	2.5
Visual Inspection (Minor)	S4	4.0
Particulate Residue	N = 5	≤ 2mg/glove
Protein Content	N = 3	≤ 50µg/g
Colloidal Oatmeal Content	N = 5	≥ 5mg/glove

### REORDER CODE

CTS53XS	X-SMALL
CTS53SS	SMALL
CTS53MM	MEDIUM
CTS53LL	LARGE
CTS53XL	X-LARGE

### FEATURES

- Fully textured
- Powder free
- Made with natural rubber latex
- Lab chemical tested
- Ambidextrous
- Standard cuff
- Lime green colour

### PACKAGING

100 gloves per box for XS to XL  
10 boxes per carton

### REGULATORY COMPLIANCE

FDA 510(k), MDD 93/42/EEC, REACH,  
ROHS Directive 2002/95/EC, EU 10/2011,  
TGA-ARTG 127794, EC 1935/2004

### STANDARDS

ASTM D6319, EN455 part 1, 2, 3 & 4,  
EN 1186, EN 13130, CEN/TS 14234,  
EN 420, EN 374 part 1 & 2

### PATENTS

Patent 7,691,436; Patent 7,718,240;  
Patent 7,740,622; Patent 8,075,965;  
Patent 8,458,818

### MANUFACTURING ACCREDITATIONS

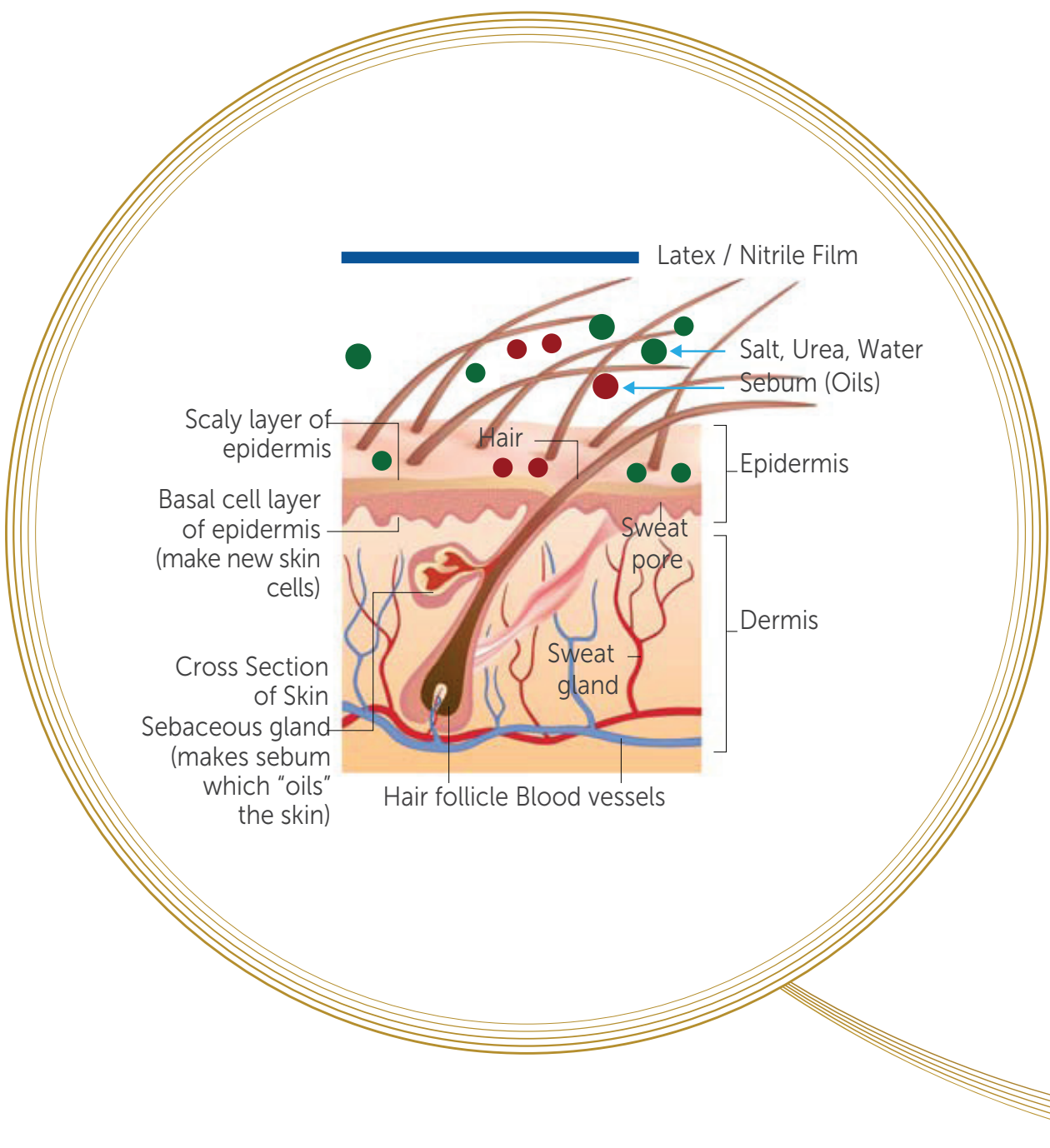
ISO 9001:2015  
ISO 13485:2003  
EN ISO 13485:2012

# ENRICHED WITH OAT BETA-GLUCAN

Oat beta-Glucan is a key component in colloidal oatmeal. Studies have shown its ability to penetrate skin to soothe and relieve from a variety of minor skin irritations. Moreover, it is a film forming moisturiser that helps skin retain water leading to better skin barrier integrity.

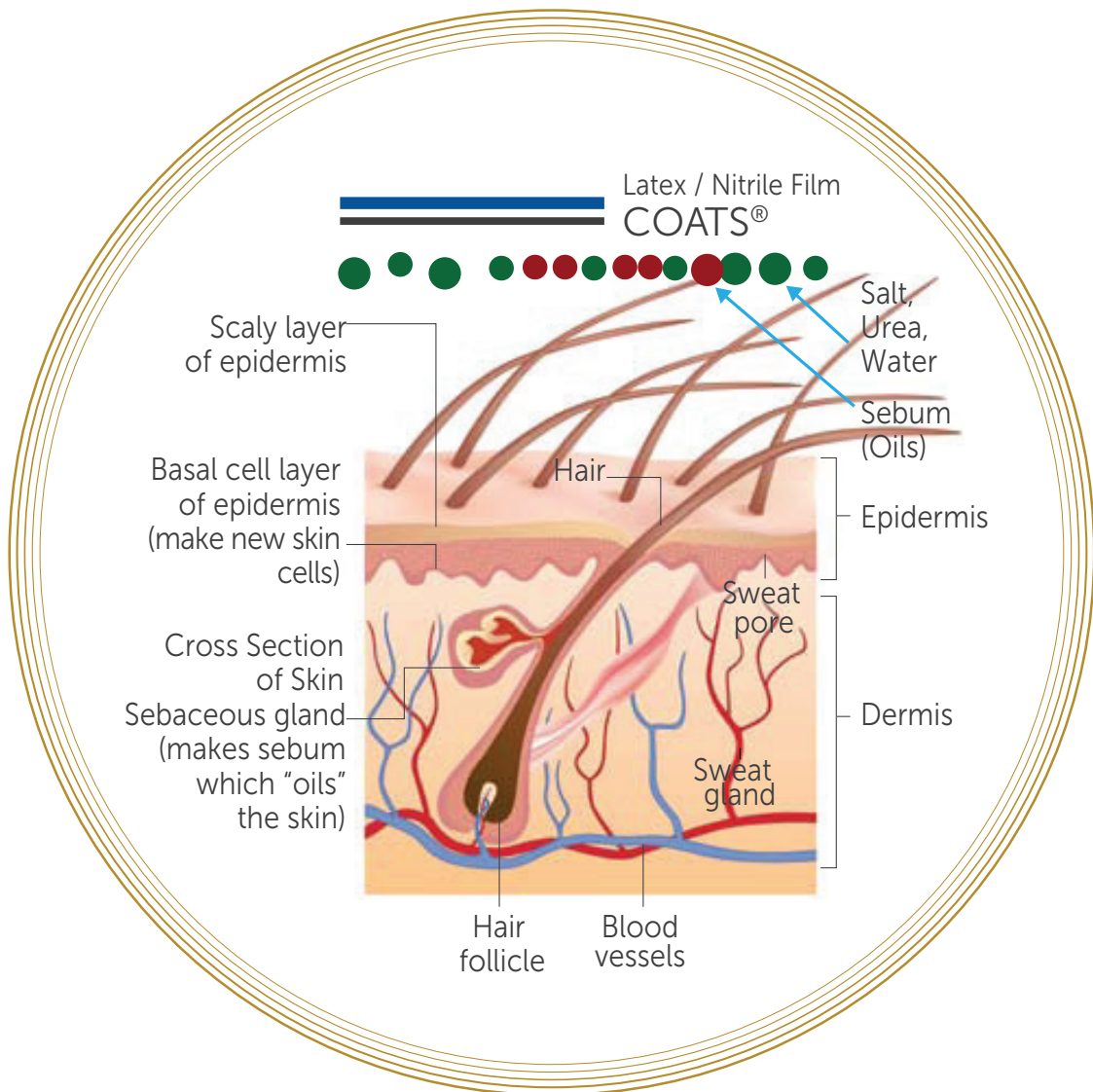
## TYPICAL CONDITIONS WHEN WEARING A NORMAL GLOVE

- Lack of oxygen
- Very high humidity; no evaporation
- Accumulation of oil, urea, salt and water (hydration dermatitis)
- Elevated temperature
- Potential irritation from glove film (contact dermatitis)



## EXPECTED BENEFITS FROM WEARING A COATS GLOVE

COATS® technology prevents direct irritation and hydration dermatitis and make the wearer as comfortable as possible by:



- Creating a natural physical barrier between glove and skin
- Absorbing water, urea and salt excretions
- Anti-irritant and redness reduction
- pH buffering
- Natural moisturising

## Leading to healthier skin



# FAQs

gloveon



## 1 . What are Oats ?

The oat (*avena sativa*) is a cereal grain grown and harvested for its seeds, which are used in a wide variety of products, including food, agriculture, health and skincare products.

## 2 . What is Colloidal Oatmeal ?

Colloidal oatmeal, the compound utilised in GloveOn COATS® gloves, is made by milling the oat seeds into a fine powder. Colloidal oatmeal is recognised by the FDA as a skin protectant, supported by the results of clinical studies which have found colloidal oatmeal to reduce and control rash, xerosis, dermatitis and assist in the healing of burns.<sup>1</sup> GloveOn COATS® gloves utilise the powerful and therapeutic benefits of colloidal oatmeal, by including a coating of colloidal oatmeal inside the glove.

GloveOn COATS® gloves moisturise your hands while you wear them, replacing moisture stripped from the skin, removing dead skin cells, relieving itch and irritation, repairing damages from other chemicals and calming the skin.

## 3 . What is Gluten ?

Gluten is a mixture of proteins that occur naturally in wheat, rye, barley and crossbreeds of these grains.<sup>2</sup> Gluten can be found in foods containing these ingredients, including bread, pasta, cakes, cereal and various sauces and dressings.<sup>3</sup> For most people, gluten is entirely safe to eat, and is a healthy source of protein and fibre. However, for people who suffer from coeliac disease, gluten can cause serious medical problems.<sup>3</sup>

## 4 . What is Coeliac Disease ?

Coeliac is a medical disease in which the immune system reacts abnormally to gluten, causing small bowel damage. Coeliac disease is a genetic predisposition, meaning people who suffer from the disease are born with genes that may result in the development of gluten intolerance. Coeliac disease is estimated to affect 1.43% of the population. If undiagnosed, coeliac disease can lead to chronic system inflammation, poor nutrition and malabsorption of nutrients. Coeliac disease cannot be cured, thus people who suffer from this disease must maintain a lifelong gluten-free diet.<sup>4</sup>

## 5 . Do Oats contain Gluten ?

Oats do not naturally contain gluten. However, due to the demands of the modern agricultural market, oat crops are often grown in close proximity to, or on plots of land previously used to grow, wheat, barley and rye crops, which can lead to cross-contamination. Food standards in Europe and the USA recognise oats as being gluten free and safe for those with coeliac disease to consume.





## 6 . I have Coeliac Disease. Can I wear GloveOn COATS® gloves ?

Yes. While minute traces of gluten due to cross-contamination may be in the colloidal oatmeal coating of GloveOn COATS® gloves, topical exposure to gluten is completely safe for coeliac sufferers. According to the Centre for Coeliac Research, "...it is the oral ingestion of gluten that activates the immunological cascades leading to the autoimmune process typical of coeliac disease".<sup>5</sup> That is, the adverse symptoms associated with coeliac disease occur only when gluten is ingested orally. The presence of gluten in products designed for external use, in particular the application of gluten products to the skin has been deemed safe by the Centre for Coeliac Research.

"If you have coeliac disease, then the application of gluten containing products to the skin should not be a problem, unless you have skin lesions that allow gluten to be absorbed systematically in great quantities" – Dr Alessio Fasano, Medical Director of the Centre for Coeliac Research.<sup>5</sup>

In fact, it is generally agreed that gluten molecules are too large to be absorbed through the skin.<sup>6</sup> As always, you should practice appropriate hand washing techniques as part of routine hygiene practices when you anticipate contact with potentially infectious people or substances.

## 7 . Will my patients be exposed to Gluten if I use GloveOn COATS® gloves ?

No. The colloidal oatmeal coating is present only inside GloveOn COATS® gloves, meaning the patient does not come into contact at all with this coating. If donned and doffed correctly, the inside of the glove should not be exposed to the patient.

If, through circumstance, the patient was to come into contact with the inside of the glove, this would cause no adverse harm to the patient, as topical exposure to gluten is completely safe for coeliac sufferers. Further, GloveOn COATS® gloves require only a minimal coating of colloidal oatmeal to achieve powerful and therapeutic skin benefits. Thus, the traces of gluten (if any) in the colloidal oatmeal coating would be extremely small.

Clinical studies that have examined the benefits of colloidal oatmeal on the skin have found that it is a safe and effective treatment for a wide range of skin conditions, without the presence of adverse reactions, including allergies.<sup>7</sup>

<sup>1</sup> Fowler, Nebus, Wallo & Eichenfield (2012); Pazyar, Yaghoobi, Kazerouni, Feily (2012); Bell & Gabriel (2009)

<sup>2</sup> US Food and Drug Administration (2014). 'Gluten-Free' now means what it says. Consumer Health Information, August 2014 Bulletin.

<sup>3</sup> State Government of Victoria (2015). Gluten-free diet. Retrieved from [http://www.betterhealth.vic.gov.au/bhcv2/bhcarticles.nsf/pages/Gluten-free\\_diet](http://www.betterhealth.vic.gov.au/bhcv2/bhcarticles.nsf/pages/Gluten-free_diet).

<sup>4</sup> Coeliac Australia (2015). Coeliac Disease. Retrieved from <http://www.coeliac.org.au/coeliac-disease/>

<sup>5</sup> Gluten Free Dietitian (2015). Personal Care Products: Do you need to worry about gluten? Retrieved from

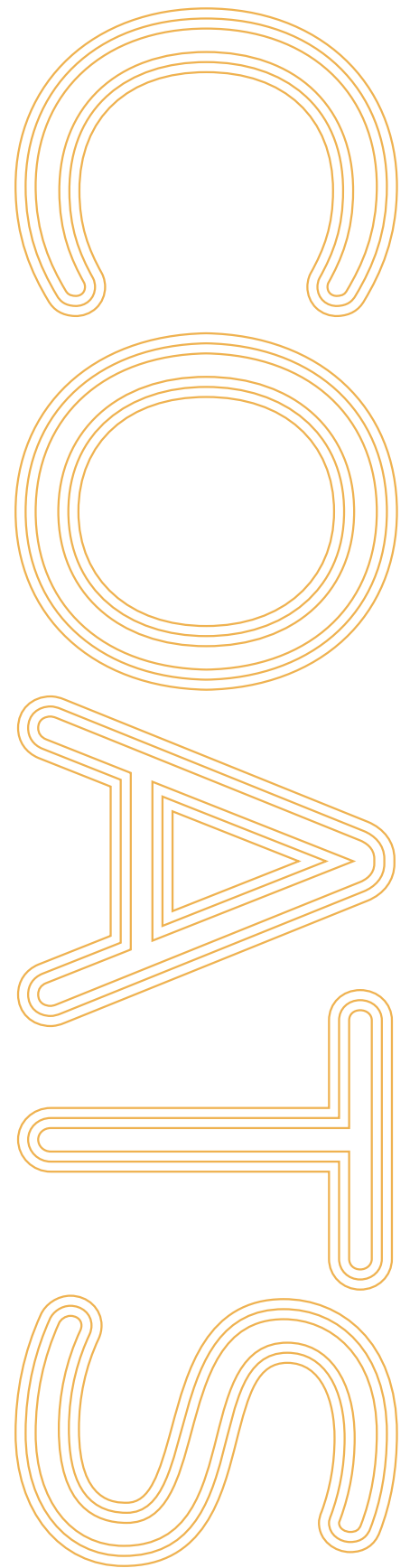
<sup>6</sup> <http://www.glutenfreedietitian.com/personal-care-products-do-you-need-to-worry-about-gluten/>  
Howard, D. (2015). A Glutton for Gluten: Should Skin Care be Gluten-Free? Retrieved from

<sup>7</sup> [http://www.dermalinstitute.com/us/library/25\\_article\\_A\\_Glutton\\_for\\_Gluten\\_Should\\_Skin\\_Care\\_Be\\_Gluten\\_Free\\_.html](http://www.dermalinstitute.com/us/library/25_article_A_Glutton_for_Gluten_Should_Skin_Care_Be_Gluten_Free_.html)  
European Medicines Agency (2008). Assessment Report on Avena Sativa L., Herba and Avena Sativa L., Fructus.



Protection Always On





Mun (Australia) Pty Ltd Suite  
305, 51 Rawson Street,  
Epping, NSW 2121, Australia.  
Tel: +61 2 9868 7708  
Toll Free: 1800 456 837  
Fax: +61 2 9868 7738  
[munglobal.com.au](http://munglobal.com.au)