

Non-Sterile Exam Glove Selection Guide

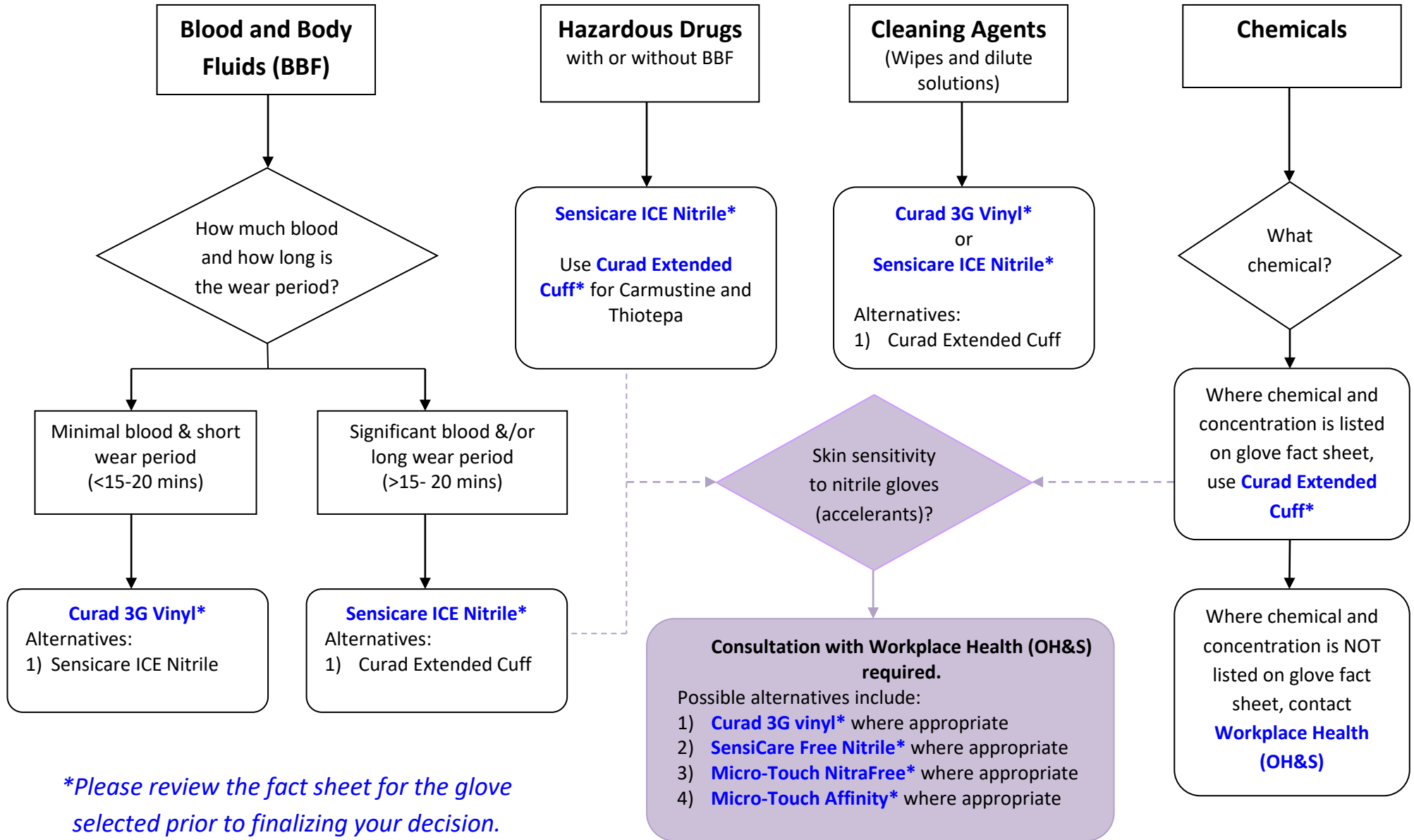
February 2018

A joint initiative between BCCSS and Workplace Health (OH&S).

Contained within this document:

- A decision tree for guidance on non-sterile exam glove selection.
- A fact sheet for each standardized non-sterile exam glove.
- Glove safety reminders.
- Ordering information.
- Workplace Health / Occupational Health & Safety contact information.
- References and compliance information.

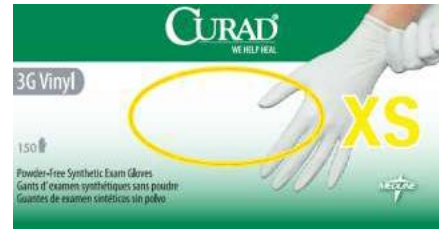
Decision Tree – What hazards do you need to protect yourself from using non-sterile exam gloves?



Curad 3G Vinyl Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 9 inch cuff
 Box Ref: XS CUR6073, S CUR6074, M CUR6075,
 L CUR6076, XL CUR6077



Recommended for:

Use	Hazard	Approved
Patient Care where contact is made with mucous membranes, body secretions and soiled equipment. <ul style="list-style-type: none"> Bathing. Phlebotomies. Emptying catheter bags. NG insertion. Suctioning. Vaginal/rectal exams. Routine care of contact precaution patients. 	Blood and body fluid (BBF): <ul style="list-style-type: none"> Small amounts of blood, and Short wear time (approximately 15-20 minutes) 	Yes
	Blood and body fluid: <ul style="list-style-type: none"> Large amounts of blood, and/or Extended wear time (> 20 minutes) 	No Use nitrile gloves

Also can be used for:

Use	Hazard	Approved
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Ammonium hydroxide, 28% Bleach, 10-13% Chlorhexidine digluconate, 4% (hand care) Cidex OPA Povidone iodine, 10% (wound care) Quaternary cleaner	Yes Change gloves at least every 10 minutes
	Accel Intervention wipes Caviwipes Isopropyl alcohol, 70% Oxivir TB wipes	No Contact Workplace Health (OH&S).

Sensicare ICE Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Midline, 9 inch cuff

Box Ref: XS MDS6800, S MDS6801, M MDS6802, L MDS6803, XL MDS6804



Recommended for:

Use	Hazard	Approved																																										
<p>Patient Care where contact is made with mucous membranes, body secretions and soiled equipment.</p> <ul style="list-style-type: none"> Exposure to large amounts of blood and body secretions. High risk trauma patients in ED. Activity where integrity of the glove is likely to be stressed. Staff or patients that react to vinyl gloves. 	<p>Blood and body fluid, plus:</p> <ul style="list-style-type: none"> Large amounts of blood, and/or Extended wear time (>20 minutes) 	<p>Yes</p>																																										
<p>Hazardous Drugs e.g. chemotherapy administration.</p> <p><i>These gloves have been tested against a broad range of hazardous drugs and thus are approved for use when handling any hazardous/cytotoxic drugs, except for Carmustine and Thiotepa.</i></p> <p><i>The specific hazardous drugs against which the gloves have been tested are listed.</i></p>	<table border="0"> <tr> <td>5-Azacytidine (25 mg/ml)</td> <td>Mechlorethamine HCl (1 mg/ml)</td> </tr> <tr> <td>Bleomycin (15 mg/ml)</td> <td>Melphalan (5 mg/ml)</td> </tr> <tr> <td>Bortezomib (1 mg/ml)</td> <td>Methotrexate (50 mg/ml)</td> </tr> <tr> <td>Busulfan (6 mg/ml)</td> <td>Mitomycin C (0.5 mg/ml)</td> </tr> <tr> <td>Carboplatin (10 mg/ml)</td> <td>Mitoxantrone (2 mg/ml)</td> </tr> <tr> <td>Cisplatin (1 mg/ml)</td> <td>Oxaliplatin (5 mg/ml)</td> </tr> <tr> <td>Cyclophosphamide (20 mg/ml)</td> <td>Paclitaxel (6 mg/ml)</td> </tr> <tr> <td>Cytarabine HCl (100 mg/ml)</td> <td>Pemetrexed (25 mg/ml)</td> </tr> <tr> <td>Dacarbazine (10 mg/ml)</td> <td>Raltitrexed (0.5 mg/ml)</td> </tr> <tr> <td>Daunorubicin (5 mg/ml)</td> <td>Vinblastine (1 mg/ml)</td> </tr> <tr> <td>Docetaxel (10 mg/ml)</td> <td>Vincristine sulfate (1 mg/ml)</td> </tr> <tr> <td>Doxorubicin HCl (2 mg/ml)</td> <td>Vinorelbine (10 mg/ml)</td> </tr> <tr> <td>Epirubicin (2 mg/ml)</td> <td></td> </tr> <tr> <td>Etoposide (20 mg/ml)</td> <td></td> </tr> <tr> <td>Fludarabine (25 mg/ml)</td> <td></td> </tr> <tr> <td>Fluorouracil (50 mg/ml)</td> <td></td> </tr> <tr> <td>Ganciclovir (10 mg/ml)</td> <td></td> </tr> <tr> <td>Gemcitabine (38 mg/ml)</td> <td></td> </tr> <tr> <td>Idarubicin (1 mg/ml)</td> <td></td> </tr> <tr> <td>Ifosfamide (50 mg/ml)</td> <td></td> </tr> <tr> <td>Irinotecan (20 mg/ml)</td> <td></td> </tr> </table>	5-Azacytidine (25 mg/ml)	Mechlorethamine HCl (1 mg/ml)	Bleomycin (15 mg/ml)	Melphalan (5 mg/ml)	Bortezomib (1 mg/ml)	Methotrexate (50 mg/ml)	Busulfan (6 mg/ml)	Mitomycin C (0.5 mg/ml)	Carboplatin (10 mg/ml)	Mitoxantrone (2 mg/ml)	Cisplatin (1 mg/ml)	Oxaliplatin (5 mg/ml)	Cyclophosphamide (20 mg/ml)	Paclitaxel (6 mg/ml)	Cytarabine HCl (100 mg/ml)	Pemetrexed (25 mg/ml)	Dacarbazine (10 mg/ml)	Raltitrexed (0.5 mg/ml)	Daunorubicin (5 mg/ml)	Vinblastine (1 mg/ml)	Docetaxel (10 mg/ml)	Vincristine sulfate (1 mg/ml)	Doxorubicin HCl (2 mg/ml)	Vinorelbine (10 mg/ml)	Epirubicin (2 mg/ml)		Etoposide (20 mg/ml)		Fludarabine (25 mg/ml)		Fluorouracil (50 mg/ml)		Ganciclovir (10 mg/ml)		Gemcitabine (38 mg/ml)		Idarubicin (1 mg/ml)		Ifosfamide (50 mg/ml)		Irinotecan (20 mg/ml)		<p>Yes</p> <p>Single or double glove as per your procedures.</p> <p>Change gloves at least every 30 minutes.</p>
5-Azacytidine (25 mg/ml)	Mechlorethamine HCl (1 mg/ml)																																											
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	<p>Carmustine (3.3 mg/ml)*</p> <p>Thiotepa (10 mg/ml)*</p>	<p>No</p> <p>Use Curad Extended Cuff Nitrile gloves.</p>																																										

Use	Hazard	Approved
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Accel Intervention wipes Ammonium hydroxide, 28% Bleach, 10-13% Caviwipes Chlorhexidine gluconate, 20% (hand care) Oxivir TB wipes Povidone iodine, 10% (wound care)	Yes Change gloves at least every 10 minutes.

*If procedures exceed the recommended glove use time, VersaShield gloves are an alternative.

Curad Extended Cuff Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 12 inch cuff

Box Ref: XS CUR7003, S CUR7004, M CUR7005, L CUR7006, XL CUR7007



Recommended for:

Use	Hazard	Approved	
Chemical Handling <ul style="list-style-type: none"> Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for concentrated chemicals (such as acids) and when hands must be immersed for long periods of time.	Bleach, 10-13% Cidex OPA Citric acid, 70% Fentanyl Formaldehyde, 37% Formalin, 10% Glutaraldehyde, 4% Hydrazine, 35% Hydrogen peroxide, 30% Isopropyl alcohol, 90%	Yes Change gloves at least every 60 minutes.	
	Acetic acid Formic acid, 88% Isopropyl alcohol, 99%	Potassium hydroxide Povidone iodine, 10% (wound care) Sodium Hydroxide, 50% Triclosan For other chemicals, contact Workplace Health (OH&S).	Caution Change gloves at least every 15 minutes.
	Acetone, 99% Chloroform, 99.8% Ethanol, 99.5% Methanol, 99.5% Phenol, 10% Toluene, 99.5% Xylene, 98.5%	No Contact Workplace Health (OH&S).	

Also can be used for:

Use	Hazard		Approved
Patient Care	Blood and body fluids (BBF) Extended wear times (>20 minutes)		Yes
Hazardous Drugs e.g. chemotherapy administration. <i>These gloves have been tested against a broad range of hazardous drugs and thus are approved for use when handling any hazardous/cytotoxic drugs.</i> <i>*Note: duration of use with Carmustine should be limited to 15 minutes.</i> <i>The specific hazardous drugs against which the gloves have been tested for are listed.</i>	Carboplatin (10 mg/ml) Cisplatin (1 mg/ml) Cyclophosphamide (20 mg/ml) Dacarbazine (10 mg/ml) Doxorubicin HCl (2 mg/ml) Etoposide (20 mg/ml) Fluorouracil (50 mg/ml) Ifosfamide (50 mg/ml)	Methotrexate (25 mg/ml) Mitomycin C (0.5 mg/ml) Mitoxantrone (2 mg/ml) Paclitaxel (6 mg/ml) Thiotepa (10 mg/ml) Vincristine sulfate (1 mg/ml)	Yes Single or double glove as per your procedures. Change gloves at least every 30 minutes.
	Carmustine (3.3 mg/ml)*		Caution Single or double glove as per your procedures. Change gloves at least every 15 minutes.
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Accel Intervention wipes Ammonia hydroxide, 28% Bleach, 10-13% Caviwipes Chlorhexidine digluconate, 4%	Cidex OPA Isopropyl alcohol, 90% Oxivir TB wipes Povidone iodine, 10% (wound care) Quarternary cleaners	Yes Change gloves at least every 10 minutes.

SensiCare Free Nitrile Exam Glove

Non-sterile, Powder-Free

Manufacturer: Medline, 9 inch cuff

Box Ref: XS FREE500, S FREE501, M FREE502, L FREE503, XL FREE504



Recommended for personnel with skin sensitivities to other products.

Use	Hazard		Approved
Patient Care	Blood and body fluids (BBF) Extended wear times (>20 minutes)		Yes
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Ammonia hydroxide, 28% Bleach, 10-13% Caviwipes Chlorhexidine Digluconate, 4% (hand care)	Isopropyl alcohol, 70% Povidone iodine, 10% (wound care)	Yes Change gloves at least every 10 minutes.
Hazardous Drugs e.g. chemotherapy administration. <i>These gloves have been tested against a broad range of hazardous drugs and thus are approved for use when handling any hazardous/cytotoxic drugs, except for Carmustine.</i> <i>The specific hazardous drugs against which the gloves have been tested are listed.</i>	Cisplatin (1 mg/ml) Cyclophosphamide (20 mg/ml) Dacarbazine (10 mg/ml) Doxorubicin Hydrochloride (2 mg/ml) Etoposide (20 mg/ml) Fluorouracil (50 mg/ml)	Methotrexate (25 mg/ml) Mitomycin C (0.5 mg/ml) Paclitaxel (6 mg/ml) Thio-Tepa (10 mg/ml) Vincristine Sulfate (1 mg/ml)	Yes Double glove Change gloves at least every 30 minutes.
	Carmustine (3.3 mg/ml)		No Contact Workplace Health (OH&S).
Chemical Handling <ul style="list-style-type: none"> Labs Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for concentrated chemicals (such as acids) and when hands must be immersed for long periods of time.	Bleach, 10-13% Citric Acid, 70% Formaldehyde, 5% Formalin, 10% Sodium Hydroxide, 40% For other chemicals, contact Workplace Health (OH&S).		Yes Change gloves at least every 30 minutes.
	Acetic Acid Isopropyl Alcohol, 70%		Caution Change gloves at least every 15 minutes.
	Ethanol, 99.5% Hydrogen Peroxide, 30% Toluene, 99.5% Xylene, 98.5%		No Contact Workplace Health (OH&S).

Micro-Touch Nitrafree

Non-sterile, Powder-Free, Accelerant Free

Manufacturer: Ansell, 9 inch cuff

Box Ref: XS 6034510, S 6034511, M 6034512, L 6034513, XL 6034514



Recommended for personnel with skin sensitivities to other nitrile products.

Use	Hazard		Approved
Patient care	Blood and body fluids (BBF) Extended wear times (>20 minutes)		Yes
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Ammonium hydroxide, 28-30% Bleach, 10-13% Chlorhexidine gluconate, 4% (hand care) Cidex OPA	Povidone iodine, 10% (wound care) Quaternary cleaner	Yes Change gloves at least every 10 minutes.
	Accel Prevention RTU Accel Intervention wipes Caviwipes	Isopropanol, 99.5% Oxivir TB wipes Virox wipes	No Contact Workplace Health (OH&S).
Hazardous Drugs e.g. chemotherapy administration.	Carmustine Cyclophosphamide Doxorubicin HCl Etoposide 5-Fluorouracile	Methotrexate Paclitaxel ThioTEPA Vincristine	Yes Single or double glove as per your procedures. Change gloves at least every 30 minutes.
Chemical handling <ul style="list-style-type: none"> Labs Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for concentrated chemicals (such as acids) and when hands must be immersed for long periods of time.	Acetic Acid, 10% Bleach, 10-13% Cidex OPA Citric Acid, 70% Formaldehyde, 37% Glutaraldehyde, 4% For other chemicals, contact Workplace Health (OH&S).	Hydrazine, 35% Potassium Hydroxide Sodium Hydroxide, 50% Triclosan, 5%	Yes Change gloves at least every 30 minutes.
	Formalin, 10% Hydrogen Peroxide, 30% Isopropanol, 70%		Caution Change gloves at least every 15 minutes.
	Acetone, 99.9% Chloroform, 99.8% Ethanol, 99.5% Formic Acid, 88%	Isopropanol, 90% Methanol, 99.5% Phenol, 10% Toluene, 99.5%	No Contact Workplace Health (OH&S).

Micro-Touch Affinity

Non-sterile, Powder-Free, Neoprene

Manufacturer: Ansell, 9 inch cuff

Box Ref: XS 3770, S 3771, M 3772, L 3773, XL 3774

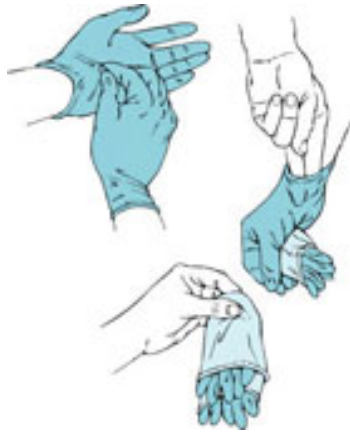


Recommended for personnel with skin sensitivities to other products.

Use	Hazard	Approved
Patient Care	Blood and body fluids (BBF) Extended wear times (>20 minutes)	Yes
Cleaning with wipes and dilute solutions. Note: Thicker chemical resistant gloves are required for concentrated cleaning solutions and when hands must be immersed for long periods of time.	Ammonium hydroxide, 25% Bleach, 10-13% Chlorhexidine gluconate, 4% (hand care) Isopropanol, 70% Oxivir (AHP)	Yes Change gloves at least every 10 minutes.
Hazardous Drugs Note: Tested as per ASTM F739, consult with Workplace Health (OH&S) if you regularly handle or administer hazardous drugs.	Cisplatin Cyclophosphamide Doxorubicin Hydrochloride Etoposide 5-Fluorouracil Melphalan Paclitaxel	Yes Double glove Change gloves at least every 30 minutes.
	Carmustine ThioTEPA	No Contact Workplace Health (OH&S).
Chemical Handling <ul style="list-style-type: none"> Labs Formalin use (e.g. pouring in ORs) Note: Thicker chemical-resistant gloves are required for concentrated chemicals (such as acids) and when hands must be immersed for long periods of time.	Bleach, 10-13% Ethyl Alcohol, 70% Formaldehyde, 37% Glutaraldehyde, 4% Hydrogen Peroxide, 30% Isopropanol, 70% Sodium Hydroxide, 50%	Yes Change gloves at least every 30 minutes.
	For other chemicals, contact Workplace Health (OH&S).	
	Methanol	Caution Change gloves at least every 15 minutes.
	Acetone	No Contact Workplace Health (OH&S).

Glove Safety Reminders

- Perform hand hygiene before donning gloves.
- Wear the appropriate glove for the specific task, and remove immediately once the task is complete.
- Remove gloves immediately if torn. Perform hand hygiene and put on a new pair of gloves.
- Do not wear the same pair of gloves from patient to patient.
- Do not wear gloves out of a patient's/resident's/client's room.
- Remove gloves by pulling them inside out. Avoid coming in direct contact with the outside of the used glove.



- **Always perform hand hygiene immediately after removing gloves. Gloves do not replace hand hygiene. Note: when working with chemicals or hazardous drugs, hands must be washed with soap and water to remove possible contamination.**

Sizing may be a bit different between each model of glove. When trying a new glove, start with the size you usually use and adjust to a larger or smaller size if needed.

Order Numbers

Reference Codes on Box:

Size	Curad3G Vinyl	Sensicare ICE Nitrile	Curad Extended Cuff Nitrile	Micro-Touch Nitrafree	Micro-Touch Affinity	SensiCare Free
XS	CUR6073	486800	CUR7003	6034510	3770	FREE500
S	CUR6074	486801	CUR7004	6034511	3771	FREE501
M	CUR6075	486802	CUR7005	6034512	3772	FREE502
L	CUR6076	486803	CUR7006	6034513	3773	FREE503
XL	CUR6077	486804	CUR7007	6034514	3774	FREE504

FH Order Numbers:

Size	Curad3G Vinyl	Sensicare ICE Nitrile	Curad Extended Cuff Nitrile	Micro-Touch Nitrafree	Micro-Touch Affinity	SensiCare Free
XS	411315	418120	330175	408709	Contact Workplace Health (OH&S)	471576
S	336347	418121	330176	407418		471577
M	336348	418122	330177	408472		471578
L	336349	418123	330178	398845		471579
XL	336350	418127	424568	415366		471580

PHC Order Numbers:

Size	Curad3G Vinyl	Sensicare ICE Nitrile	Curad Extended Cuff Nitrile	Micro-Touch Nitrafree	Micro-Touch Affinity	SensiCare Free
XS	00079760	00089473	00092540	00093815	Contact Workplace Health (OH&S)	00119459
S	00079761	00089476	00092534	00093816		00119460
M	00079762	00089477	00092535	00093817		00119461
L	00079763	00089474	00092536	00093818		00119462
XL	00079764	00089475	00092537	00093819		00119463

PHSA Order Numbers:

Size	Curad3G Vinyl	Sensicare ICE Nitrile	Curad Extended Cuff Nitrile	Micro-Touch Nitrafree	Micro-Touch Affinity	SensiCare Free
XS	Not itemized	00085935	00085980	Not itemized	Contact Workplace Health (OH&S)	00092402
S	00086328	00085936	Not itemized	Not itemized		00092403
M	00086329	00085937	00031946	Not itemized		00092404
L	00086330	00085938	00085981	Not itemized		00092405
XL	00086331	00085939	Not itemized	Not itemized		00092406

VCH Order Numbers:

Size	Curad3G Vinyl	Sensicare ICE Nitrile	Curad Extended Cuff Nitrile	Micro-Touch Nitrafree	Micro-Touch Affinity	SensiCare Free
XS	00079760	00089473	00092540	00093815	Contact Workplace Health (OH&S)	00119459
S	00079761	00089476	00092534	00093816		00119460
M	00079762	00089477	00092535	00093817		00119461
L	00079763	00089474	00092536	00093818		00119462
XL	00079764	00089475	00092537	00093819		00119463

Contact Information

FH Workplace Health

[Intranet home page](#)
[Site Safety Consultants](#)

PHC Occupational Health and Safety

[Intranet home page](#)
[Site Occupational Health and Safety Advisors](#)

PHSA Workplace Health

[Intranet home page](#)
workplacehealth@phsa.ca

VCH Workplace Health

[Intranet home page](#)
[Site Occupational Health and Safety Advisors](#)

References and Compliance Information

Glove specifications data:

- Medline resistance data for hazardous drugs and chemicals sent to Workplace Health (OH&S) in 2016 and 2017.
- Ansell Chemotherapy Drug Permeation Chart (2017) and Chemical Resistance Guide (2017) sent to Workplace Health (OH&S) in Oct. 2017. Microtouch Affinity chemical permeation data was derived from the Ansell Examination Gloves Document (2012).

All gloves tested in accordance with:

- Blood and body fluid penetration:
 - ASTM D6319 - 10 Standard Specification for Nitrile Examination Gloves for Medical Application.
 - or,
 - ASTM D5250 - 06(2011) Standard Specification for Poly(vinyl chloride) Gloves for Medical Application
 - and,
 - ASTM F1671: Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.
- Hazardous drugs:
 - ASTM D6978 Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs
- Chemicals:
 - ASTM F739: Standard Test Method for Resistance of Protective Clothing to Permeation by Liquids, Gases Under Conditions of Continuous Contact
 - or,
 - EN 374: Protective Gloves Against Chemicals and Micro-Organisms – Part 3: Determination of Resistance to Permeation by Chemicals

This selection guideline was developed to comply with:

- WorksafeBC Occupational Health and Safety Regulation.
- BCCA Pharmacy Practice Standards for Hazardous Drugs, September 2016. Retrieved January 24, 2017 from http://www.bccancer.bc.ca/pharmacy-site/Documents/Safe%20Handling/8%20Safe%20Handling%20Standards%20Summary_September%202016.pdf