Using Hand Sanitizer Safely During the COVID-19 Pandemic

Anne-Marie Nicol, MES PhD

Knowledge Translation Scientist, National Collaborating Centre for Environmental Health

November 26th, 2020



National Collaborating Centre for Environmental Health



Centre de collaboration nationale en santé environnementale

www.ncceh.ca









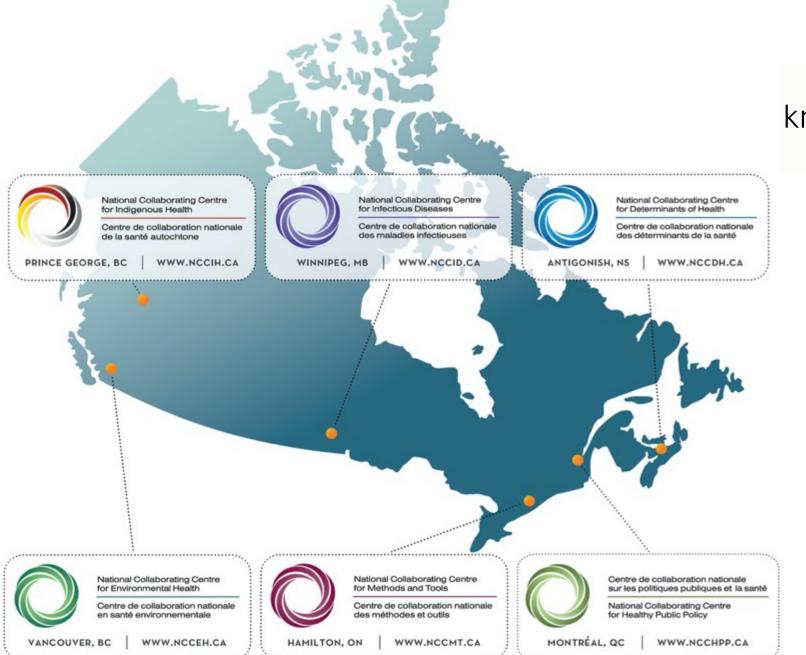
Faculty/Presenter Disclosure Statement

Faculty: Anne-Marie Nicol, PhD

Relationships with commercial interests: None

Grants/Research Support: None

Employee of National Collaborating Centre for Environmental Health (funded by the Public Health Agency of Canada)



Evidence-based knowledge synthesis and translation

Identify knowledge gaps

Foster networks, build capacity for Canada's public health system

Outline

- 1. COVID-19 response: NCCEH KT
- 2. The rise of hand sanitizer in Canada
- 3. Production and challenges
- 4. Safety considerations if you use or purchase hand sanitizer
- 5. NCCEH resources available via links at the end of presentation

An Introduction to SARS-CoV-2

Regularly updated:

- Genomics
- How is the virus transmitted?
- When is the virus transmitted?
- Sensitivity to environmental factors
- Persistence on surfaces









You are have - - more - - Sociations - - Bestiene rester - - - An area factor to \$400 Copy of

An introduction to SARS-CoV-2

Topics, Suff Descriptional Contaminating and Habitating COSTS-19 Schoolson Cleanure

(Linet Updated New Yor 2000)

An introduction to SARS-CoV-2

The emergence of a rejived contingence in talle 2019, identified as SAVEL-COM 5, has resident in a grabet parameters assumptioned by an unprecedented public health resignmen. This time is properties of SAVEL-COM 2, and from it is bettermided continues across earlies that currently forms the boson of the emotiving public health response. This document has been applicated by an expectation of the emotive public health response. This document has been applicated in the emotive public health response and provide adolptional information about the empty that may be relevant to the public health response. As new emotives an empty of the emotive emotive emotive emotives an emotivation of the emotive emotive emotive and an emotivation of the emotive emotive emotive emotives the emotivation.

SARS-CeV-2 genomics

Service and a required by syndrome contractive 2 (SARS-CoVII) is the consequence responsible for the SARS-COVIII They are entractly destruct from viruses that name in the part of the contractive and the surpress of the surpress of the contractive and the surpress of the

The rate of students—showed for DARS-COV-2 is significantly tower than influence, suggesting if in evoluting some doorly in enquiries to beloadly presented. ** Ministrating groups of the protects of the plantered, with the distribution is operating prographically.** The distribution on the course of the parameter, with the first same in flur performing assembled with a desired field relength to the distribution of the program of the parameter o

Peaceurs is origing to understand from the explicitor of the news in different geographies is affecting transportability and severity of channes. ** Genums surveitance data ** and conventional epidemiological before south as social transportation or larger proportions for the original continuous, intently customs, and understand destination in larger proportions (e.g., children and the effect). Hereing general variants to health and opposite polymers that are the public health residence, response development and the seeign of the epidemion are the proposite or the proposite of the epidemion of

Symptoms and severity of disease

Suchabatha

Symptoms of COVID-19 can include cough, texes, shortness of breath, findmess, some famili, body solves, chills, and freedom-. Some people may also experience has of sensit or basis, sauces, votables, or destinate, shortness and standard experience or rest may be more community.

NCCEH COVID-19 Response: KT







NCCEH COVID-19 Response: KT





Q

When informing residents about additional cleaning measures, strata councils are cautioned against indicating that the additional cleaning is eliminating or even significantly reducing the risk of COVID-19 transmission at the property.

The National Collaborating Centre for Environmental Health (NCCEH) is a knowledge translation unit funded by the Public Health Agency of Canada and hosted within the BC Centre for Disease Control. They developed a COVID-19 guide on cleaning and other precautions in multi-unit housing that includes information on cleaning products and personal protective equipment for cleaners.

Laundry Rooms

The NCCEH COVID-19 guide on cleaning and other precautions in multi-unit housing has information about using and cleaning laundry rooms.

 NCCEH has created a <u>poster for shared laundries</u> with simple precautions to reduce the risk of transmission

Using Shared Laundry Facilities During the COVID-19 Pandemic



National Collaborating Centre for Environmental Health

Centre de collaboration nationale

Current research suggests that SARS-CoV-2, the virus that causes COVID-19, can live for hours to days on hard surfaces, so laundry machines, countertops, and furniture need to be sanitized frequently. Health Canada has created a list of disinfectants that are safe and effective against the virus.

0 0

Although laundry from sick people should be kept bagged and separate while in your home to prevent accidental handling, there is no need to wash or dry these items separately.



Created on March 3s., 2009. Icons credited to The Noun Project Creative Commons (Andrew Doane; Carlos Dias, Pf; Chiara Rossi, IT; Drin-Pieter van Walsum, M.; Focus Lab, US; Luis Prado, US; Mauro Luschesi, AR; Montile; Roman J. Sokolov, RIJ; Ruslan Denign, ID; Iomas Knopp, CD.

COVID-19 Topic Pages

Environmental health resources for the COVID-19 pandemic

Building shutdown and re-opening

COVID-19 management during public health emergencies

COVID-19 resources as they pertain to specific EH areas.

Targeted to property managers with enacting a temporary closure, cleaning, and re-initializing.

Adapt typical emergency management practices and procedures during pandemic

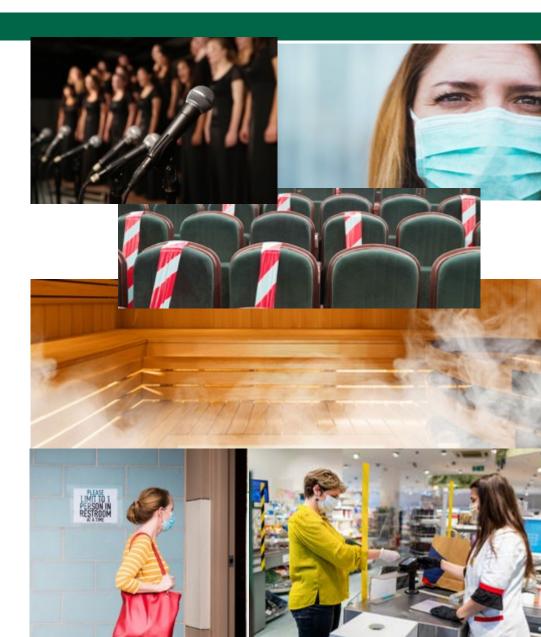
NCCEH COVID-19 Response: KT

Masking during the COVID-19 pandemic

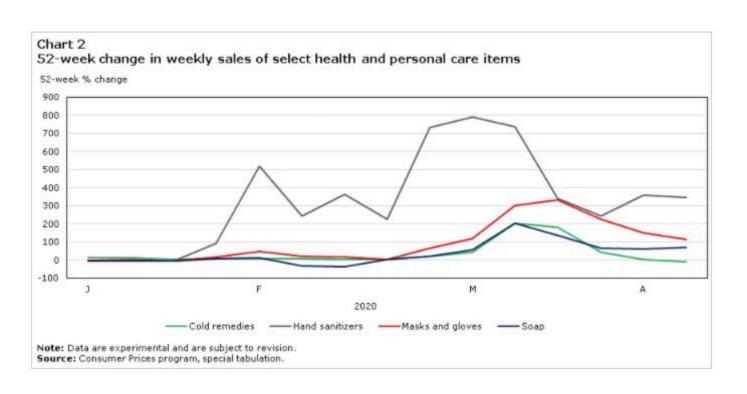
COVID-19 Risks and precautions for the performing arts | choirs

COVID-19 in indoor environments: air and surface disinfection measures

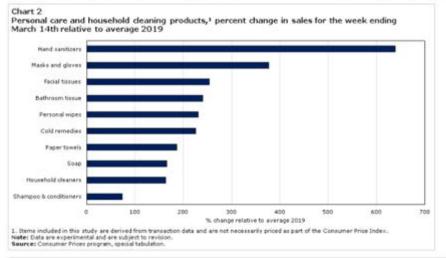
Specific settings: high humidity; public washrooms; commercial venues



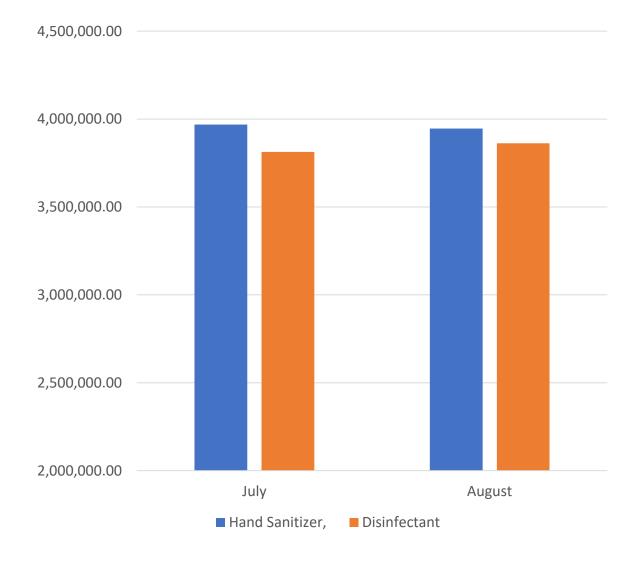
Early surge in hand sanitizer purchases across Canada- shortage ensued



Personal care and household cleaning products sales surge



Estimated use of essential PPE, all businesses, in litres. July and August 2020 (last published date) Cansim: Table: 13-10-0786-01

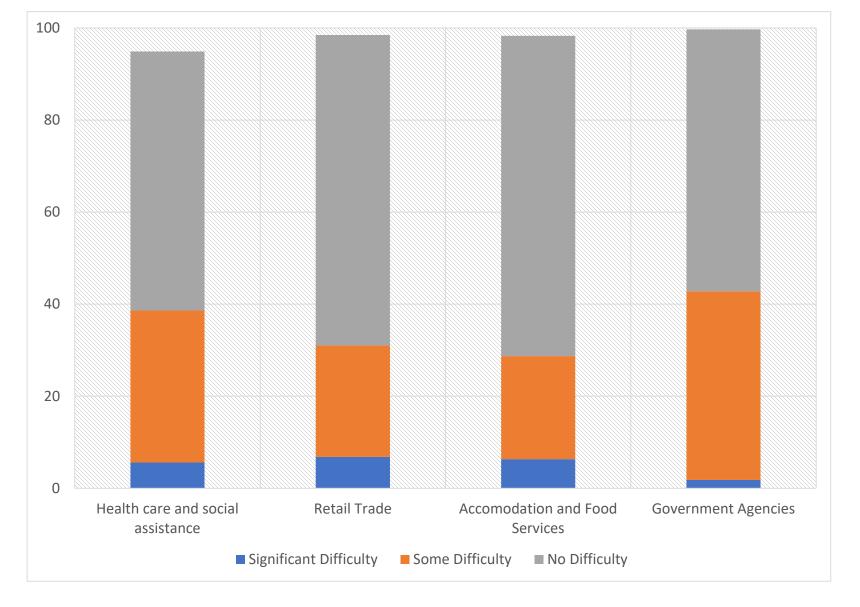


Businesses including retail, food services and accommodations have significantly increased purchase and use of hand sanitizer and cleaning and disinfecting products

Purchasers level of difficulty accessing products **Sept-Oct 2020**

Table: 33-10-0289-01

Product: Hand Sanitizer

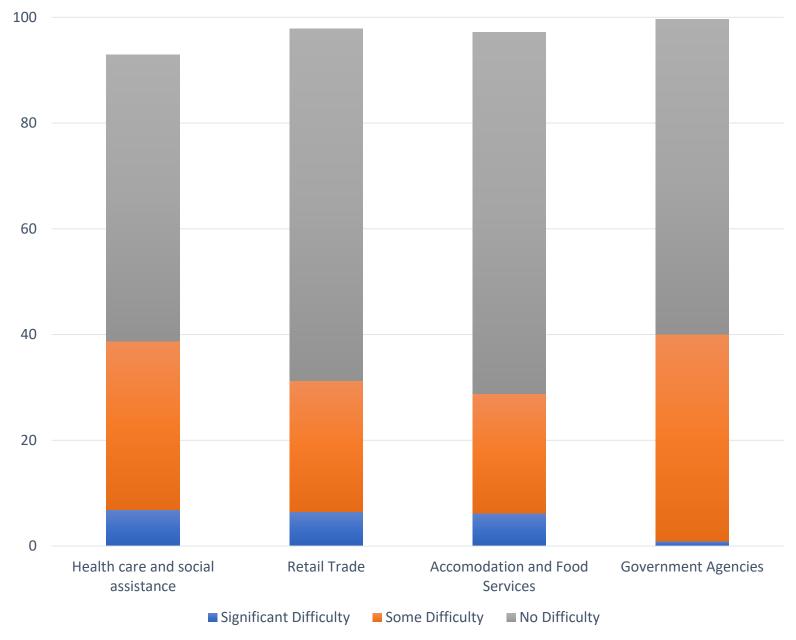


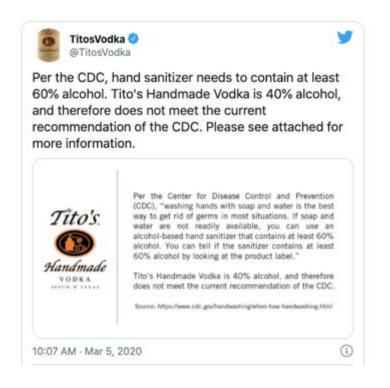
Accessed November 20th, 2020

Purchasers level of difficulty accessing products **Sept-Oct 2020**

Table: 33-10-0289-01

Product: Cleaning and Disinfecting









Shortages-pivots and problems

Using Hand Sanitizers Safely During the COVID-19 pandemic





Hand sanitizers contain regulated ingredients and should be used with care. Health Canada recommends using a hand sanitizer approved for use. To reduce the risk of adverse effects, read the label carefully and consider the following:

DO'S

- Apply in a well-ventilated setting, take care when using in a vehicle.
- Keep away from open flames—gas stoves, candles, lighters.
- Store away from children, pets and people with dementia.
- Supervise use for children under 6.
- Remove jewellery before use.
- Let hands dry.

DONT'S

- Consume hand sanitizer.
- Put in cups, glasses or beverage containers.
- Make or buy homemade hand sanitizer.
- Add water, oils, or fragrances.
- Use bleach, even if watered down. Bleach is harmful to skin.
- Store near food or food preparation areas.

For maximal benefit, use enough to cover the front and back of your hands, between fingers and over nails.

If you have an adverse effect from hand sanitizer use, contact a healthcare provider or your local poison control centre.

NCCEH developed resources early on to support public health

- Blogs and a poster focused on
 - How to apply
 - When to use
 - Safe storage
- Orient people away from DIY products
 - ineffective
 - dangerous
- Health Canada developed an authorized products list

https://ncceh.ca/sites/default/files/NCCEH%20Hand%20Sanitizers% 20COVID-19%20poster%20EN.pdf

Français

Canada.ca > Coronavirus disease (COVID-19) > COVID-19 health product industry

> COVID-19 Disinfectants, sanitizers, cleaners and soaps

Hard-surface disinfectants and hand sanitizers (COVID-19): List of hand sanitizers authorized by Health Canada

Overview	List of disinfectants (COVID-19)	List of hand sanitizers
Information for manufacturers	Products accepted under interim measure	

1 Note: This list is updated regularly, so please check back often.

The following antiseptic/antibacterial skin cleansers or hand sanitizers meet Health Canada's requirements and are authorized for sale in Canada.

To date, there are no hand sanitizers in Canada approved with COVID-19 related claims. Although they have not been tested for effectiveness against viruses such as coronaviruses, <u>hand sanitizers</u> can help reduce the risk of infection by, or spread of, microorganisms.

Inclusion on this list does not constitute an endorsement by Health Canada.

How to find out which antiseptic skin cleansers or hand sanitizers meet Health Canada's requirements for sale in Canada.

- 1. Locate the Natural Product Number (NPN) or Drug Identification Number (DIN) on the product label
- 2. Look for that number on the hand sanitizers list

- Notice to industry
- · Suppliers of technical grade ethanol for use in the production of hand sanitizers
- Risk assessment summary report
- Manufacturers of hand sanitizers using technical-grade ethanol

Big Rig Hand Sanitizer

Hand Cleanser

Hell's Basement Brewery

Filter items brewery Showing 1 to 15 of 15 entries (filtered from 4,430 total entries) | Show 25 ventries Drug identification number (DIN) or natural product Alcohol number (NPN) Active ingredient(s) based Product form **†**| **‡ 1** Product name ↑ ↓ Company ↑ ↓ **↑** ↓ 80097807 Mill Street Brewery Labatt Brewing Company Ethyl alcohol Yes Liquid Limited 80098041 Farmery Hand Sanitizer Farmery Estate Brewery Ethyl alcohol Yes Liquid 80098050 Minhas Micro Brewery MCBSW Creative Services Ethanol Yes Liquid Hand Sanitizer 80% Inc dba Minhas Micro Brewery 80098100 MInhas Sask Hand Minhas Sask Ventures Inc Ethyl alcohol Yes Liquid Sanitizer 80% dba Minhas Sask Distillery. Winery & Brewery 80098278 Good Mood Brewery Good Mood Brewery Ethyl alcohol Liquid Yes 80098340 Muskoka Brewery Hand Muskoka Brewery Ethyl alcohol Yes Gel Sanitizer 80098352 Hand Sanitizer Black Bridge Brewery Ethyl alcohol Yes Gel 80098382 Troubled Monk Hand Troubled Monk Brewery Ethyl alcohol Liquid Sanitizer 80099012 Great Lakes Hand Sanitizer | Great Lakes Brewery Ethyl alcohol Yes Solution 80099131 Troubled Monk Brewery Yes Troubled Monk - Isopropyl 2-Propanol Liquid Sanitizer 75% 80099211 Pump House Ethanol Pump House Brewery Ethyl alcohol Yes Liquid Sanitizer 80% Snowgoose-Ethanol Ethyl alcohol 80100181 Snowgoose Brewery Inc. Yes Spray sanitizer 75% 80100526 Yellowbelly Brewery Yellowbelly Brewery Ethyl alcohol Yes Gel Ethanol Sanitizer - 80%

Big Rig Brewery

Hell's Basement Brewery

Ethyl Alcohol

Ethyl Alcohol

Yes

Yes

80102249

80102500

Liquid

Liquid

Many new sectors producing hand sanitizer

- Breweries
- Wineries
- Vape manufacturers
- Hair Care
- Cosmetics
- Pharmaceutical
- Commercial Printers
- Metal products manufacturing



BioLife Sciences Inc. (BLFE) Announces the Recent Sale of Over 250,000 Bottles of Hand Sanitizer





Problems and recalls emerged

Contaminants found in products

- Ethyl Acetate
- Methanol
- Unapproved additives

Side effects

- Headaches, dry skin, irritation
- Methanol particularly toxic
 - Dermal absorption
 - Very toxic if ingested

Labelling for products containing Technical Grade Ethanol

 Products contain more impurities than food grade ethanol

Label needs added cautions

- Not approved for use with pregnant or breast-feeding women
- Adult Use Only
- Do not use on broken or damaged skin

Manitoba government spent \$1.2M on unauthorized hand sanitizer subject to recall









Shared Health wouldn't say how much of the unauthorized hand sanitizer was used, or who had it



Ian Froese · CBC News · Posted: Aug 10, 2020 7:07 PM CT | Last Updated: August 10





8/31/2020 | Aaron Colonnese Creative Associate

More Americans than ever are relying on hand sanitizers to keep ourselves and our families healthy, given the global pandemic. But some hand sanitizers are putting our health in danger. VEATHER SPORTS BEST OF VIDEO MORE

Than 100 Potentially Toxic call

is, COVID-19, FDA warning, Hand Sanitizer, methanol, Toxic, wood alcohol

NEWS = MENU

Home » News

Health Canada recalling over 50 hand sanitizers

Kirsten Clarke / Richmond News AUGUST 6, 2020 03:00 PM







Affected products

Certain hand sanitizers are being recalled because they either contain ingredients that are not permitted by Health Canada or are not properly labelled and are missing important information.

Search:

Product description

Show 10 ∨ entries

Affected products

	Product +	Reason for precall	Recalling company	NPN or DIN	Affected lot \$ number(s)	Expiry date	Date added [▼]
	Siding 14 Brewing Company - Ethanol Sanitizer 80%	Missing risk statements; product not authorized to contain technical- grade ethanol	Siding 14 Brewing Company Ltd.	80098925	20.046 to 20.073	Not printed on the label	2020-11- 13
	Bio Life Hand Sanitizer	May contain unacceptable ingredient, methanol	10932540 Canada Inc./ Bio Life Sciences Corp.	80101522	All	All	2020-11- 13
	Snake Lake Brewing Company - Ethanol Sanitizer 80%	Missing risk statements; product not authorized to contain technical- grade ethanol	Snake Lake Brewing Company, Inc.	80100225	0002	May 2022	2020-11- 02
	<u>Daily Shield</u> <u>Hand</u> <u>Sanitizer</u>	Contains unacceptable ingredient, methanol; ethanol content is less than the recommended amount to be effective	10932540 Canada Inc./ Bio Life Sciences Corp.	80098979	All	All	2020-11- 02
	Pure Essentials Lavender and Sace Hand	Not authorized for sale in Canada; contains	Pure Essentials	Unlicensed (no NPN or	All	Not printed	2020-10-

Health Canada created searchable database for recalled products

and lots.



Advanced Search (S)

Morbidity and Mortality Weekly Report (MMWR)

CDC











A-Z Index

Serious Adverse Health Events, Including Death, Associated with Ingesting Alcohol-Based Hand Sanitizers Containing Methanol — Arizona and New Mexico, May-June 2020

Weekly / August 14, 2020 / 69(32);1070-1073

On August 5, 2020, this report was posted online as an MMWR Early Release.

Luke Yip, MD¹; Danae Bixler, MD¹; Daniel E. Brooks, MD²; Kevin R. Clarke, MD¹; S. Deblina Datta, MD¹; Steven Dudley Jr., PharmD³; Kenneth K. Komatsu⁴; Jennifer N. Lind, PharmD¹; Annaliese Mayette, PhD⁵; Michael Melgar, MD¹; Talia Pindyck, MD¹; Kristine M. Schmit, MD¹; Steven A. Seifert, MD⁶; Farshad Mazda Shirazi, MD, PhD³; Susan C. Smolinske, PharmD⁷; Brandon J. Warrick, MD⁶; Arthur Chang, MD¹ (View author affiliations)

View suggested citation

Summary

What is already known about this topic?

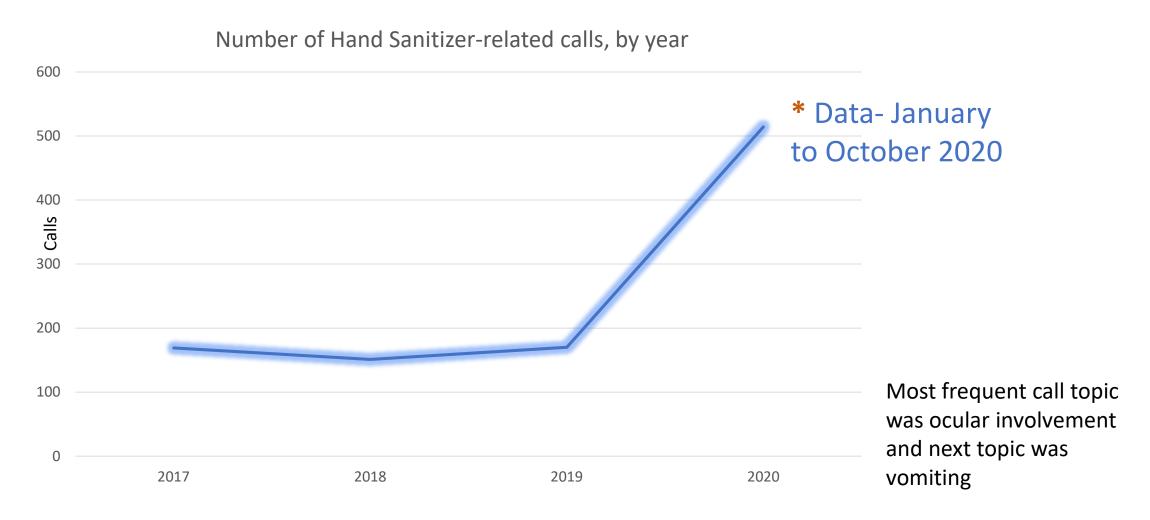
Alcohol-based hand sanitizers should only contain ethanol or isopropanol, but some products imported into the United States have been found to contain methanol.

What is added by this report?

From May 1 through June 30, 2020, 15 cases of methanol poisoning were reported in Arizona and New Mexico, associated with swallowing alcohol-based hand sanitizers. Four patients died, and three were discharged with visual impairment.



Hand sanitizer related calls to BC Drug and Poison Information Centre (DPIC)



ALERT: Hand Sanitizers That Look Like Drinks

In this time of shortages across the country, many companies have taken up the call to manufacture hand sanitizers, so there is greater access to these products. There is a risk that hand sanitizer will be swallowed by accident by an adult or child when it is provided in containers that are usually used for drinks such as soda, water, and alcoholic beverages.

INCIDENT

ISMP Canada received a recent report from a concerned consumer about a hand sanitizer (Figure 1) being sold in a grocery store. He picked up a bottle thinking it contained a drink but soon realized it was hand sanitizer. The consumer shared that the product inside the bottle was a liquid, not a gel—it looked just like water. He was concerned that the product would be mistaken for water and ingested.

RISK OF ACCIDENTAL POISONING

Many companies are trying their best to get hand sanitizers out to those who need them, but they may be limited

Figure 1:

Photo of a hand sanitizer sold in a 2-litre bottle usually used for drinks.



in their ability to create or find appropriate packaging. For example, the manufacturer of the product in Figure 1 has reported difficulty in obtaining bottles normally used for household products. Instead, the manufacturer is distributing hand sanitizer in 2-litre bottles (as shown) and 500-mL containers commonly used for drinks lik soda and water. Others are using containers that a already available in their pre-pandemic productio processes, such as wine and liquor bottles¹ (Figur and 3). In some cases, the labels and branding are similar to known alcoholic beverages, possibly increasing the risk of accidental poisoning.

Another potential concern is the reduced ability f consumers to recognize that the product is not intended for drinking because of its taste. Most h sanitizers contain alcohol that has been deliberate



Figures 2 and 3:

Examples of hand sanitize sold in wine liquor bottles



Canada

Local v

olitics

Money

h Entertainment

Lifestyle

Wat

IWK's child safety specialist warns against potential harm of hand sanitizer marketed to children



By Aya Al-Hakim • Global News Posted August 24, 2020 12:52 pm

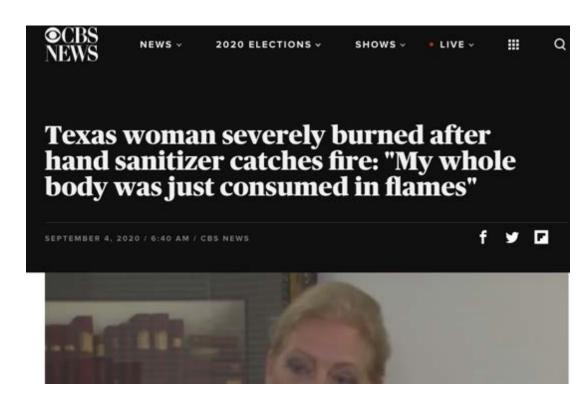
Hand-sanitizers marketed to young children are being sold in the province. Reynold Gregor/Global News

DPIC calls related to Hand Sanitizerdistribution by BC Health Region and Age

	Interior	Fraser	Vancouver Coastal	Vancouver Island	Northern
Younger Children (0-5)	36	126	59	44	16
Older Children (6-19)	3	12	8	8	4
Adult (20 and above)	17	53	60	40	11
Total Hand Sanitizer Calls	56	191	127	92	31
Total Calls by HA/% HS	4343 (1.3%)	9361 (2.0%)	6083 (2.1%)	5356 (0.8%)	2041 (1.5%)

Potential new issue? Hand Sanitizers are flammable products





Issues and challenges to address

- More education and better access to information for consumer and purchasers
 - Collaboration between health promotion and health protection
 - Actively promote websites and portals
- How to navigate difficult messaging
 - Delicate balance- Promote use while advising about potential toxicity or problems
 - Improved information- particularly for kids
- Surveillance and transparency
 - Are products harming Canadians?
 - How robust is product surveillance for packaging and contamination?

Example- Current way to check products difficult to use

chnical-grade ethanol

Affected products

Certain hand sanitizers containing industrial-grade ethanol

Product description

Please note that the products in the following table are listed alphabetically, rather than by the date they were added.

Product	Unacceptable Ingredient	Recalling Company	NPN or DIN	Lot number(s)	Expiry Date	Date Added
Adclean (Technical)	Ethyl Acetate	Adfast Canada Inc.	80098241	200423-114854	April 2022 July 2020	
				200505-114929	May 2022	
Aktif Antiseptique instantané pour les mains	Ethyl acetate	Laboratoire Hygienex Inc.	80098088	■ 189665189574	May 16, 2022	June 10, 2020
Biogel	Ethyl acetate	Groupe Savon Olympics, Inc.	80098684	OD991OD992OD963OD964OE998OE997OE994	April 2022	July 3, 2020
BioVectra Sanitizer	Ethyl acetate	BioVectra, Inc.	80097796	• 53473	September 2020	July 21 2020
				53999	December 2020	
Biovectra Hand Sanitizer – Topical Gel	Ethyl acetate	BioVectra, Inc.	80099246	• 53491 • 53509 • 53518 • 53583	April 2021	July 21 2020

Please note that the products in the following table are listed alphabetically, rather than by the date they were added.

Affected products							
Product	Reason for recall	Recalling Company	NPN or DIN	Lot number(s)	Date Added		
204 Hand Sanitizer	Not authorized for sale in Canada; product not authorized to contain technical- grade ethanol; some lots contain technical- grade ethanol and are missing risk statements	204 Spirits Inc.	None	All	August 7, 2020		
Agape Hand Sanitizer	Missing risk statements; product not authorized to contain technical- grade ethanol	Formula A Inc.	80099669 (does not appear on the label)	■ 080620	July 17, 2020		
Alco-Klean / Magiechem Inc Assainisseur À Base D'Éthanol 80%V/V	Missing risk statements; product not authorized to contain technical- grade ethanol	Magiechem Inc.	80099007	■ 16679- 200421	July 17, 2020		
Ascencia Désinfectant pour les mains	Incorrect NPN; product not authorized to contain technical- grade ethanol; missing risk statements	Arclay Natural Technologies	80098625 appears on the label, which is the wrong NPN. 80100505 is the correct NPN.	■ EN142	July 6, 2020		
Avery Essentials	Essentials statements; product Con Hand not authorized to Bran	Universal Consumer	80099591	■ 20E31A	June 24, 2020		
Hand Sanitizer		Brands	80099412	20C30A20D19A20E08A20E01A	June 24, 2020		

Buyer beware, most not aware

ADDITIONAL PRODUCT INFORMATION

MICROSAN ® Optidose ™

Foaming Alcohol Handrub

NPN80002518

ACTIVE INGREDIENT: Ethanol 72% v/v (technical grade)

DIRECTIONS: Adults only. Apply to palms and rub hands together until dry. For external use only.

WARNINGS: Do not use on broken or damaged skin. Do not use if you are pregnant or breastfeeding. Do not inhale. Do not ingest. Keep away from flames and heat. Do not smoke while using.

Report any incident to

https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adversereaction-reporting.html

Questions? Call 1-866-234-2345 to report any adverse reaction. In case of accidental ingestion, contact Poison and Drug Information Service at 1-800-332-1414.

Gather and connect partners

Bring in new skill sets to augment KT

Recognize new consequences likely to emerge

Keep communicating! apply best practices to continue to encourage people to:

Share experiences with other pandemic interventions that face similar challenges- ex- masks, face shields

What to do with recalled products??



Search NCCEH.CA G 🖰 🖨 🖸 🕲

ABOUT US PRODUCTS V COURSES ~ EVENTS ~ BLOG FORUM

FRANÇAIS

You are here - Home - Blog - When hand washing is not handy: Cautions for hand sanitizer use

When hand washing is not handy: Cautions for hand sanitizer use

Monday, April 27, 2020 Anne Marie Nicol

Washing hands with soap and water for at least 20 seconds is the most effective strategy for removing the COVID-19 virus from hands. In some situations, hand sanitizers can be used as a substitute if soap and water are not immediately available. Hand sanitizers (sometimes called hand rubs) are gels, foams, aerosols or liquids that contain antimicrobial agents. The goal of hand sanitizer use is to decrease the number of microorganisms on hands when soap and water aren't readily available. The majority of hand sanifizers are alcohol based and made from formulations of isopropyl alcohol, ethyl alcohol or n-propanol. Alcohol-based hand sanitizers are currently considered the most effective for sanitizing against viruses. Some of the other active ingredients approved by Health Canada include chloroxylenol, benzalkonium chloride, iodine, benzethonium chloride and chlorhexidine gluconate.

Shortages of hand sanitizers have led some to consider making their own using formulations found online. Health Canada has released a warning against making or purchasing homemade (DIY) products and recommends that Canadians who have these products stop using them.

Non-approved products and adverse effects from production or use

There are serious adverse outcomes that can occur from the production or use of homemade products. The alcohol-based ingredients needed to make t SARS-CoV2 are flammable, can be toxic and must be handled with care in well-ventilated areas. With shortages of the basic ingredients needed to make some people may consider using other ingredients such as regular or over-proof alcohol. These substitutions are not recommended because the concent make solutions that can destroy the SARS-COV-2 virus.

Due to current challenges accessing hand sanitizers, people may be considering alternative products such as witch hazel, tea tree oil and vinegar as repli do not meet Health Canada's criteria for use as disinfectants and are not recommended as hand sanitizer solutions. Even at low concentrations, bleach is sanitizer ingredient as it is extremely corrosive and can damage skin, eyes and other tissues

https://ncceh.ca/blog



National Collaborating Centre for Environmental Health

Centre de collaboration nationale en santé environnementale

Search NCCEH.CA











ABOUT US ~ PRODUCTS ~ COURSES SLOG FORUM FRANCAIS

You are here - Home - Stog - Hand Sanitizer contamination prompts more recalls during COVID-19

Hand Sanitizer contamination prompts more recalls during COVID-19

Monday, August 10, 2020 Anne-Marie Nicol

Hand washing with soap and water for at least 20 seconds is the preferred way to wash hands during the COVID-19 pandemic. When soap and water are not available, hand sanitizer is another easy, convenient, inexpensive, and accessible option to clean and disinfect hands. However, hand sanitizer use is not without risk. In April, the NCCEH released a blog and poster that outlined

how to use hand sanitizers safely and provided a link to the initial list of Health Canada authorized products.

Beyond packaging- new concerns regarding hand sanitizer ingredients

Since May, Health Canada has issued and updated a series of recalls and advisories about specific brands and lots of hand sanitizers that have been sold in Canada. These warnings focus on problems with ingredients, labeling and talse claims made by producers about effectiveness during COVID-19.

1) Contaminants in Hand Sanitizers

Health Canada's most common warnings and recalls on their website focus on hand sanitizers contaminated with ethyl acetate (a common solvent), methanol (wood alcohol) and unauthorized ingredients. The website provides information on the specific lot or serial numbers of the recalled products as well as the Drug Identification Number (DIN) or the Natural Product Number (NPN). This allows consumers to quickly reference their own products against the list. Health Canada cautions that products containing these ingredients could cause adverse reactions such as skin and eye irritation, upper respiratory irritation, skin cracking, dermatitis and headaches. The recalled products also pose a greater risk if consumed, particularly by children.

2) Technical grade hand sanitizer- not to be used by children or pregnant or feeding women

In late July 2020, Health Canada expanded an earlier recall: of hand sanitizers that contain technical grade ethanol due to concerns about inadequate labeling. Technical grade ethanol may contain acetaldehyde and prolonged exposure to elevated levels of acetaldehyde has been linked to cancer. Health Canada's risk assessment has concluded that even though acatablebuda lavale the hand cantifeer are low, products made with technical grade athanol should not be used by with an hor preparator breast feeding woman. To differential

National Collaborating Centre for Environmental Health



Centre de collaboration nationale en santé environnementale







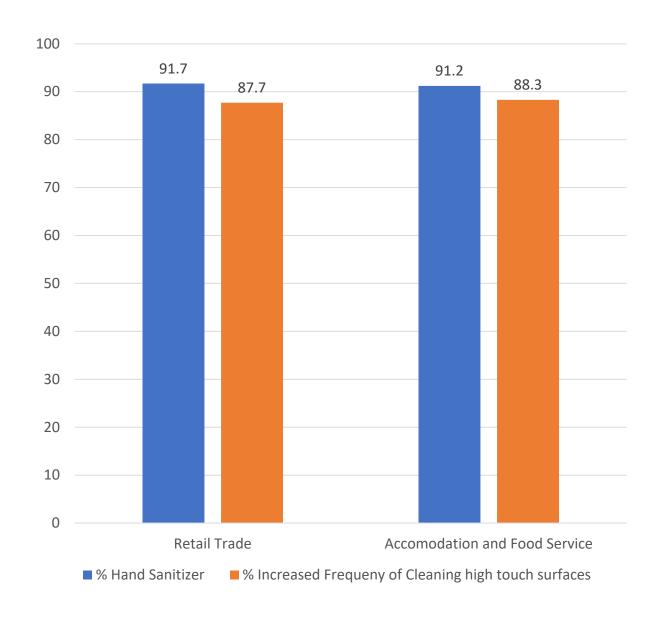




anne-marie.nicol@bccdc.ca

with contributions from Amanda Kurowski, and Victoria Wan, BC CDC

Production of this presentation has been made possible through a financial contribution from the **Public Health Agency of Canada**.



COVID-19 measures taken by businesses-

Retail outlets Accommodation and Food Service