Rely+On® Virkon®

U.S. Instructions Reference | Safety, Handling & Application

Read both pages before use. This reference covers the U.S. product. Match it to your container label; formulations, approved uses and directions can differ by country. The container label and current safety information take precedence.

KEEP OUT OF REACH OF CHILDREN • DANGER / PELIGRO

Product & Composition

Powder/tablet disinfectant with virucidal, bactericidal, germicidal and fungicidal activity. The source lists one-step cleaning/disinfection where permitted, compatibility with most hard non-porous surfaces, NSF listing and OSHA bloodborne-pathogen-standard compliance. Pre-clean for bloodborne-virus procedures.

Ingredient	Amount
Potassium peroxymonosulfate	21.41%
Sodium chloride	1.50%
Other ingredients	77.09%
Total	100.0%

Available-chlorine equivalent: 9.75%. Net contents: see the container. Source IFU EPA registration: 39967-138.

Precautions

The dry powder is corrosive: it can burn skin and cause irreversible eye injury, and is harmful if swallowed or absorbed through skin. The IFU states that its corrosivity warning does not apply to the 1% in-use solution. Avoid contact with eyes, skin and clothing. Wear protective clothing, rubber gloves and goggles, a face shield or safety glasses. Wash hands with soap and water after handling; remove and wash contaminated clothing before reuse.

Never combine the powder or prepared solution with other chemicals, including bleach or other halogen-containing products.

First Aid

Have the product label or container available when seeking medical help. **Eyes:** immediately hold the eye open and rinse gently with water. The source IFU specifies 15–20 minutes and removal of contact lenses after the first 5 minutes; the U.S. SDS specifies at least 30 minutes and immediate medical attention. Continue rinsing while obtaining urgent advice.

Skin/clothing: remove contaminated clothing and rinse skin immediately with plenty of water for 15–20 minutes (IFU); the SDS specifies at least 20 minutes. Contact a poison center or doctor. **Swallowed:** call a poison center or doctor immediately. A conscious person able to swallow may sip a glass of water. Do not induce vomiting unless directed, and give nothing by mouth to an unconscious person.

Emergency contacts (U.S. SDS): CHEMTREC **800-424-9300**; LANXESS **800-410-3063**. The older IFU lists 866-673-6350. Use the contact details on your current container/SDS. **Physician note (IFU):** possible mucosal injury may make gastric lavage inappropriate.

Disposal

Unused pesticide, spray mixture or rinsate may require special disposal. When label-directed use cannot dispose of it, obtain guidance from your state pesticide/environmental agency or an EPA regional hazardous-waste representative.

For nonrefillable product containers, do not reuse or refill. Empty into application equipment or a mix tank. Fill one-quarter with water, recap, shake 10 seconds, and empty rinsate for labeled use or disposal. Drain 10 seconds after dripping starts. Repeat twice. Recycle/recondition or dispose of the punctured container in a sanitary landfill; burning is only where authorities allow it, and smoke must be avoided.

Approved Settings & Organisms

The IFU describes hard, non-porous surface use in healthcare and EMS facilities, laboratories, food-processing and food-service premises, restrooms, retail and beauty/barber businesses, factories, schools/daycare, hotels/offices, correctional facilities, funeral premises, gyms/health spas, and transportation terminals and vehicles.

Viruses: hepatitis A, B and C; HIV-1; influenza A; respiratory syncytial virus (RSV); norovirus; avian influenza; and pandemic 2009 H1N1 influenza A.

Bacteria: Bacillus cereus; Campylobacter jejuni; Chlamydia psittaci; Clostridium perfringens; Listeria monocytogenes; Shigella sonnei; Streptococcus pyogenes; Helicobacter pylori; Klebsiella pneumoniae; Escherichia coli, including O157:H7; Salmonella typhimurium and S. enterica; Pseudomonas aeruginosa; Staphylococcus aureus, including MRSA; Staphylococcus epidermidis; and vancomycin-resistant Enterococcus faecalis (VRE). **Fungi:** Candida albicans and Trichophyton mentagrophytes. Use the concentration and procedure appropriate to the target organism.

Routine Cleaning & Disinfection

Cleaning only: remove gross dirt. Apply a 1% solution with a sponge, brush or sprayer, scrub as needed until visibly clean, then rinse.

Food-contact surfaces: remove gross dirt and clean using 1% solution. Maintain a 10-minute wet contact time, then rinse with potable water.

Non-food-contact surfaces: remove gross dirt, apply 1% solution by mop, sponge, brush or sprayer, and leave the surface wet for 10 minutes before air-drying. For fungal contamination, use **2%** with the same procedure. See Page 2 for mixing quantities.

Material & Medical-Use Restrictions

Avoid acid-sensitive surfaces such as marble, and soft metals such as copper, brass and certain aluminum grades. Prevent splashing on carpets or textiles. Verify compatibility of all critical materials before use.

Do not use on instruments or surfaces that enter the body, contact the bloodstream or normally sterile body areas, or contact intact mucous membranes. The IFU excludes medical-instrument use. Using a disinfectant contrary to its labeling violates federal law.

CPR Training Manikins

Between students: the source specifies 3% solution; one listed preparation is three 5 g tablets in 16 fl oz water. Fully wet the mouth/nose area by spraying or wiping. Keep visibly wet for at least 30 seconds, wipe dry with a disposable cloth, then rinse with potable water.

After class: clean promptly before contamination dries. Disassemble according to the manikin manufacturer. Brush-wash internal/external surfaces and reusable face shields with 1% solution; allow 10 minutes of contact and rinse with potable water. Small-bottle tablet quantities in the source are inconsistent; see the note on Page 2.

Storage

Keep dry product cool, dry and securely closed, away from children; replace the lid after use and retain the desiccant supplied with the product. Store prepared spray solution in a cool, dry place, out of children's reach. Prevent contamination of water, food or feed during storage or disposal.

Sources: LANXESS U.S. IFU (17 Nov 2020) [1] • U.S. product information [2] • Safety Data Sheet [3]

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U.S. Instructions Reference | Dilution Tables & Preparation

Measure the water first, then add the product. All fluid-ounce amounts below are U.S. fluid ounces. A 4 fl oz bottle is a liquid-volume size, not 4 ounces by weight. The powder chart applies to the 500 g (17.6 oz) shaker bottle and 5 kg (176 oz) bucket in the source IFU.

Powder Mixing Table

Water to Measure	1% Solution	2% Solution	3% Solution
4 fl oz — Spray Bottle*	**¼ tsp powder***	**½ tsp powder***	**¾ tsp powder***
16 fl oz — 1 Pint	1 tsp	2 tsp	1 Tbsp
32 fl oz — 1 Quart	2 tsp	4 tsp	2 Tbsp
128 fl oz — 1 Gallon	8 tsp	16 tsp (⅓ cup)	½ cup
160 fl oz — 5 Quarts	10 tsp	20 tsp	10 Tbsp
640 fl oz — 5 Gallons	40 tsp	1⅓ cups	2½ cups

*** Added calculation:** the 4 fl oz powder amounts are one-quarter of the manufacturer's 16 fl oz amounts; this row is not in the original LANXESS table. For a 1% small batch, add **¼ teaspoon powder to 4 fl oz water**. Mix in a suitable larger container if the spray bottle needs headspace, then transfer the solution. Do not estimate by filling an unmarked bottle.

tsp = teaspoon; **Tbsp** = tablespoon. The 1%, 2% and 3% headings follow the manufacturer's U.S. dilution chart; use the concentration required for the application. A 1% solution remains effective as a broad-spectrum disinfectant for **7 days** [1, 2].

Tablet & Sachet Quantities — Original Manufacturer Entries

Product Form / Strength	16 fl oz	32 fl oz	128 fl oz	160 fl oz	640 fl oz
5 g Tablet (0.18 oz) / 1%	1	2	8	10	40
5 g Tablet (0.18 oz) / 2%	2	4	16	20	80
5 g Tablet (0.18 oz) / 3%	3	6	24	30	120
40 g Tablet (1.44 oz) / 1%	—	—	1	—	5
40 g Tablet (1.44 oz) / 2%	—	—	2	—	10
40 g Tablet (1.44 oz) / 3%	—	—	3	—	15
50 g Sachet (1.8 oz) / 1%	—	—	—	1	4
50 g Sachet (1.8 oz) / 2%	—	—	—	2	8
50 g Sachet (1.8 oz) / 3%	—	—	—	3	12

Numbers are whole tablets or whole sachets. A dash means the source gives no entry; it does not authorize splitting tablets. For the additional small 3% batch, the source table lists one 5 g tablet in **170 mL (5.75 fl oz)**, while its CPR text mentions a premarked **5.3 oz** bottle. These are not interchangeable: follow the current package directions or use the unambiguous three-tablet / 16 fl oz preparation.

Preparation & Spray-Bottle Use

Powder: after removing gross dirt from the surface, put the measured water in a suitable container, add the chart quantity of powder, cap and gently shake until completely dissolved. Apply using a sponge, brush or sprayer. For the 1% hard-surface disinfection procedure, maintain visible wetness for 10 minutes, then air-dry; rinse food-contact surfaces with potable water.

Tablets: the standard 1% batch uses one 5 g tablet per pint of water. Cap and gently shake until dissolved. For a tablet packaged with an empty 16 oz bottle, fill with water, add the tablet, dissolve and replace the cap with the sprayer.

Matched sachet/bottle packs: fill the supplied bottle with water, empty the complete matched sachet into it, cap and gently shake to dissolve; fit the sprayer. A full sachet is **not** the 4 fl oz powder dose.

Premixed solution: do not assume indefinite effectiveness. Record the mixing date and prepare a fresh batch when the label's usable period has elapsed. Read all precautions on Page 1.

Additional Labeled Applications

Crisis-scene hard surfaces: use the 1% preparation and 10-minute wet contact time for the labeled bacterial/viral organisms; observe the medical-instrument exclusions on Page 1.

Respirator face plates: disassemble per the equipment instructions and remove gross dirt. Submerge or spray using 1% solution; keep wet for 10 minutes. Rinse thoroughly with water and allow to dry.

Blood, body fluids or vomit: cover the soiled area with powder, wait 10 minutes and scoop into a plastic bag for infectious-waste handling. Follow with 1% solution on the surface for 10 minutes of wet contact, then air-dry.

HIV-1, HBV and HCV decontamination: for previously soiled environmental surfaces, use disposable gloves, gown, mask and eye protection. Thoroughly remove blood/body fluids using a cleaner **before** disinfecting. Keep the cleaned surface wet with disinfectant for 10 minutes. Autoclave and dispose of infectious materials according to local rules.

Manufacturer: LANXESS Corporation, 111 RIDC Park West Drive, Pittsburgh, PA 15275. Product information: (800) LANXESS / +1 412 809 1000. Rely+On and Virkon are LANXESS trademarks. This independently reformatted reference and its added calculations are not a new manufacturer-issued label.