

Tier II - Products that Disinfect Against Human Coronavirus

As of March 13, EPA is supporting the use of products that have demonstrated efficacy against another human coronavirus similar to SARS-CoV-2 on its List N, Disinfectants for Use Against SARS-CoV-2. In other words, the product has not proven that it can kill harder to kill viruses than SARS-CoV-2, which would be a Tier I product, but it can kill viruses like SARS-CoV-2. CBC therefore has amended its list to include a Tier II listing of products that state that they can disinfect human coronavirus.

EPA recommendation is that only if a product with an emerging viral pathogen claim is not available, use a product that will disinfect against human coronavirus.

Tier II - Products that Disinfect Against Human Coronavirus			
Commercially Available Product Name	Company/Distributor	EPA REG No.	Formulation Type
Array Comprehensive Clean Germicidal Bleach & Disinfectant	Gordon Food Service, Inc	70271-13-45133	Dilutable
BOARDWALK GERMICIDAL ULTRA BLEACH	United Stationers Supply Company	70271-13-84728	Dilutable
Champ	Wechem, Inc.	1839-169-34370	RTU
Ecolution Disinfectant	State Industrial Products	61178-1-70799	RTU
Enviro-Solutions 24+	Charlotte Products Ltd.	1839-79-68138	Dilutable
Enviro-Solutions 25+	Charlotte Products Ltd.	1839-95-68138	Dilutable
Enviro-Solutions 512 Sanitizer	Charlotte Products Ltd.	1839-86-68138	Dilutable
Enviro-Solutions 64H Neutral Disinfectant Cleaner	Charlotte Products Ltd.	1839-169-68138	Dilutable
FIRST MARK GERMICIDAL ULTRA BLEACH	Performance Food Group	70271-13-73835	Dilutable
Formula 236 Terg-o-cide	State Industrial Products	10324-154-70799	RTU
Formula 362 No Rinse	State Industrial Products	61178-1-70799	RTU
FROSTY ACRES RESTAURANT'S PRIDE ADVANTAGE GERMICIDAL ULTRA BLEACH	FAB Inc	70271-13-55020	Dilutable
Lysol Neutra Air® 2 in 1	RB	777-136	RTU
Lysol® Brand All Purpose Cleaner – (All Scents)	RB	777-66	RTU
Lysol® Kitchen Pro Antibacterial Cleaner	RB	777-91	RTU
Lysol® Laundry Sanitizer (disinfection in pre-soak using UDM method)	RB	777-128	Dilutable
Micro Q64 Cleaner & Disinfectant	Charlotte Products Ltd.	1839-169-64900	Dilutable
MONOGRAM CLEANING DISPOSABLES DISINFECTANT BLEACH	U.S.Foods, Inc	70271-13-87442	Dilutable
NDC Morning Fresh Neutral Disinfectant Products	State Industrial Products	1839-169-70799	RTU
NI-712 Disinfecting Cleaning Concentrate	Neutron Industries	1839-169-42666	RTU
Nisus DSV	Nisus Corporation	10324-80-64405	Dilutable
PRIME SOURCE GERMICIDAL ULTRA BLEACH	Prime Source LLC	70271-13-68613	Dilutable
Pro-Line	Wechem, Inc.	1839-168-34370	RTU
PROPOWER ORIGINALS GERMICIDAL ULTRA BLEACH	Independent Marketing Alliance	70271-13-75686	Dilutable
Protection that Lives on Microban 24 Hour Keeps Killing 99.9% of Bacteria for Up to 24 Hours Sanitizing Spray (Microban 24 Hour Sanitizing Spray)	The Procter & Gamble Company	4091-20-3573	RTU
PURE BRIGHT GERMICIDAL ULTRA BLEACH	KIK International LLC	70271-13	Dilutable
PURELL Foodservice Surface Sanitizer, No Rinse Required	GOJO Industries, Inc	84150-3	RTU
PURELL Healthcare Surface Disinfectant	GOJO Industries, Inc	84150-4	RTU
PURELL Professional Surface Disinfectant	GOJO Industries, Inc	84150-3	RTU
Qaut X	Wechem, Inc.	1839-167-34370	RTU
Quatricide PV Second Generation	Pharmaceutical Research Labs., Inc.	10324-154-8714	RTU
Quatricide PV-15 Second Generation	Pharmaceutical Research Labs., Inc.	10324-141-8714	RTU
Quick Defense NDC	State Industrial Products	1839-236-70799	RTU
Quick Defense Wipes	State Industrial Products	6836-372-70799	RTU
Saniguard	Wechem, Inc.	1839-86-34370	RTU
ServClean Sanitize	Charlotte Products Ltd.	10324-81-68138	RTU
State Po2wer DC	State Industrial Products	10324-214-70799	RTU
Surface Defense Disinfecting Wipes	Neutron Industries	6836-372-42666	RTU
SUV Ultra Disinfecting Wipes	OSHA Review, Inc.	6836-372-70809	Wipe
Swish Food Service 1000	Swish Maintenance Limited	1839-79-67205	Dilutable
Swish Food Service 2000	Swish Maintenance Limited	1839-86-67205	Dilutable
SYSCO CLASSIC GERMICIDAL ULTRA BLEACH	Sysco Corporation	70271-13-29055	Dilutable
VICTORIA BAY GERMICIDAL ULTRA BLEACH	Dade Paper and Bag Company	70271-13-82294	Dilutable
Victoria Bay Quality Products for Everyday Needs Germicidal Ultra Bleach1	Victoria Bay Products	70271-13-82294	Dilutable
Waxie Germicidal Ultra Bleach	Waxie's Enetrprises Inc	70271-13-14994	Dilutable

As a public service, CBC is maintaining this list of antimicrobials that have proven to be effective against stronger pathogens, such as norovirus or ebola. By publishing and maintaining this open list, CBC relieves federal, state, and local health officials' resources in order to focus on other aspects of the important effort to limit spread of this new disease. Listing is voluntary and compliance with EPA's "emerging viral pathogen" guidance for antimicrobial products is verified by CBC. CBC will be working with federal and state officials to disseminate the list and make it accessible to all those who need to be in the know.

ⁱ To include a product on CBC's list of Coronavirus-Fighting Products, registrants of the products should please contact Ms. Komal K. Jain at komal_jain@americanchemistry.com. Please also refer to CBC's Frequently Asked Questions guidance at <https://biocides.americanchemistry.com/CBCs-List-of-COVID-19-Fighting-Products-FAQs.html>

1. Identification

Product identifier **DIC-1 SPRAY DISINFECTANT**
Recommended use EPA REG. NO. 1839-220-83908 EPA EST. NO. 33466-RI-01
 RTU Spray Disinfectant
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information**Manufacturer**

Company name The Deirdre Imus Environmental Health Center®
Address Hackensack University Medical Center
 30 Prospect Ave., Research Building, Room 240
 Hackensack, NJ 07601
Telephone 551-996-8048

Emergency phone number 800-349-3525

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Serious eye damage/eye irritation Category 2B
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
 Hazardous to the aquatic environment, long-term hazard Category 3
OSHA defined hazards Not classified.
Label elements
Hazard symbol None.
Signal word Warning
Hazard statement Causes eye irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement
Prevention Wash thoroughly after handling. Avoid release to the environment.
Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage Store away from incompatible materials.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients**Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA)		64-02-8	1 - < 3
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6)		85409-23-0	0.15

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-18)		68391-01-5	0.15
Other components below reportable levels			90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Stay upwind. Ventilate closed spaces before entering. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Isolate area.
Methods and materials for containment and cleaning up	Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. 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 of the EPA.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid breathing vapors or mists of this product.

Conditions for safe storage, including any incompatibilities

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. Store in original tightly closed container.

8. Exposure controls/personal protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves.

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Light Yellow

Odor

Lemon

Odor threshold

Not available.

pH

11.9

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

> 213.6 °F (> 100.9 °C)

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density	8.41 lbs/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids, alkalis and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes mild skin irritation.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Exposed individuals may experience eye tearing, redness, and discomfort.
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Information on toxicological effects

Acute toxicity	Not available.
Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/eye irritation	Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
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IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not applicable.
Specific target organ toxicity - repeated exposure	Not applicable.
Aspiration hazard	Not applicable.

12. Ecological information

Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	(for institutional products) CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

General	[For information purposes only: Note - Shipper/offeror is responsible for confirming appropriate proper shipping name, hazard classification(s), packing group, marking, labeling, placarding, packaging, and other regulatory requirements applicable to packages offered for transport. These requirements may vary depending on the quantity of material, packaging, mode of transportation, and carrier.]
DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

15. Regulatory information

US federal regulations	This product is a U.S. EPA registered pesticide. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Toxic Substances Control Act (TSCA)	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
SARA 304 Emergency release notification	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazardous substance	Not listed.
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Serious eye damage or eye irritation
SARA 313 (TRI reporting)	Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word

CAUTION

Hazard statement

Causes moderate eye irritation.

US state regulations

[For informational purposes only:

Subregistrants shall use a compliant California Proposition 65 safe harbor warning. A compliant safe harbor warning is provided below.

Subregistrant may elect not to use a safe harbor warning if it conducts an assessment which determines such ingredient falls below the threshold action level requiring warning under California Proposition 65. Subregistrant does so at its own risk and liability, and hereby agrees to indemnify and hold Stepan harmless for any claim, cause of action, or damages arising from such decision not to warn.

Note – the Proposition 65 precautionary word "WARNING" is inconsistent with the "DANGER" signal word required on the FIFRA label. "ATTENTION" or "NOTICE" are compliant with Proposition 65 and are acceptable in place of "WARNING" if EPA has approved that language on the product master label.]

California Proposition 65



WARNING: This product can expose you to chemicals including Acetaldehyde, which is known to the State of California to cause cancer, and Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acetaldehyde (CAS 75-07-0)

Listed: April 1, 1988

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol (CAS 107-21-1)

Listed: June 19, 2015

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory (NZIoC)	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date

Draft version.