

Safety Data Sheet

Issue No: GHS 1.2	Issue Date July 2020	Issued by ICA International Chemicals
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of product:	Virukill® Hand Sanitiser
Other means of identification:	Didecylmethyl Ammonium Chloride (DDAC) 0.12 %
Recommended use:	Hand Sanitiser.
Restrictions on use:	Not for internal use.
Supplier:	ICA International Chemicals (Pty) Ltd 28 Planken Street Plankenbrug Industrial STELLENBOSCH · 7600 · SOUTH AFRICA
Telephone No:	+27 21 886 9812
Fax number:	+27 12 886 8209
Emergency Tel No:	Griffon Poison Information Centre +27 82 446 8946 Poisons Helpline 0861 555 777

2. HAZARDS IDENTIFICATION

GHS classification of Product	Inhalation Category 5 Eye Damage/Irritation- Category 2B Skin Corrosion/Irritation – Category 3	
GHS Label elements		
Signal Word	Warning	
Hazard Statements	H333 May be harmful if inhaled H316 May causes mild skin irritation - continuous exposure. H320 Causes eye irritation.	
Precautionary Statements	P332+P313 If skin irritation occurs: Get medical advice. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.	

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO:	Proportion
N,N-Didecyl-N,N-dimethyl ammonium chloride (DDAC)	7173-51-5	0.12 %
ADDITIVE(S)	Not Available	Balance

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

INHALATION:	If experiencing respiratory symptoms (irritation, difficulty with breathing), remove person to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Call for medical assistance.
EYES:	Rinse eyes IMMEDIATELY with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing while holding eyelids apart. Immediately seek medical assistance.
SKIN:	If on skin and irritation occur, rinse affected area with soap and water. Wash contaminated clothing before re-use. Seek medical assistance if skin irritation persists.
INGESTION:	If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Immediately give 3-4 glasses water. Never give anything to an unconscious person. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. If vomiting does occur, keep on giving fluids. Get medical attention.
Advice to Doctor	For Virukill ® is Hand Sanitiser, no long-lasting damage expected. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	
SMALL FIRES:	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.
LARGE FIRES:	Apply water in large quantities (flooding). Keep unopened containers exposed to the fire cool with spraying water on it.
Hazards from combustion products:	If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, ammonia and hydrocarbons
Special protective equipment for fire fighters:	Fire fighters should wear full protective gear including self-contained breathing apparatus, especially in confined spaces.
Fire Fighting Procedures:	Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use protective equipment to prevent the contamination of eyes, and clothing

PROTECTIVE EQUIPMENT:

- EYES: Wear chemical safety glasses.
- RESPIRATORY: If inhalation of vapour/mist is likely to occur, wear an approved respirator mask with mist filter, especially in case of insufficient ventilation.
- SKIN: Wear washable hat and buttoned-up cotton overalls.

EMERGENCY PROCEDURES:

- Wear protective clothing.
- Cover the drains.
- Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

- PREVENT spilled concentrated product from entering drains or sewer systems. Dike and bund area with sand or earth to prevent contamination of drains or sewers.

METHODS AND MATERIALS FOR CONTAINMENT AND METHODS AND MATERIALS FOR CLEANING UP

- Simplest method of disposal involves dilution to low concentrations in order to allow the biocide to degrade naturally (only if permitted by regulatory authorities). At levels below 10 parts per million (active), no detrimental effects on functioning waste treatment systems have been noted.

7. HANDLING AND STORAGE

HANDLING Keep container closed. Use good personal hygiene practices. Remove contaminated clothing and clean before re-use. Prevent formation of aerosols and mist.

STORAGE Store closed in original containers, in a dry, well ventilated area out of direct sunlight.
Keep container tightly sealed and do not store with foodstuffs
Compatible with all substances. Dry formulations should be stored separately from liquids to avoid wetting from spills.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS None allocated

ENGINEERING CONTROLS: Handle in well ventilated area. Draught ventilation is adequate. Facilities should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:
EYES: Wear chemical safety glasses.
RESPIRATORY: If inhalation of vapour/mist is likely to occur, wear an approved respirator mask with mist filter, especially in case of insufficient ventilation.
SKIN: Wear washable buttoned-up cotton overalls.

HYGIENE MEASURES After each day's use, wash contaminated clothing and safety equipment.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Homogenous, clear, colourless, liquid/gel

ODOUR: None

pH: 5-7

FLASH POINT: None (not flammable)

SPECIFIC GRAVITY / DENSITY: ~1kg/ℓ

VOLATILITY: Non-volatile

MISCIBILITY: Standard water, acetone and ethanol at 30 °C – no solid material separation; no separation into layers.

SOLUBILITY IN WATER: Freely soluble

COMPATABILITY: Not compatible with concentrated anionic compounds.

CORROSION (METALS): Non-corrosive to metals
Aluminium, copper, carbon steel and brass = <0.08 mm/year. (ASTM G31-72)

OXIDISING PROPERTIES: Not an oxidising substance.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions.

HAZARDOUS REACTIONS None.

CONDITIONS TO AVOID: Excessive heat and fire.

INCOMPATIBLE MATERIALS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: The substance decomposes on burning and can produce toxic fumes of nitrogen oxides and chloride.

11. TOXICOLOGICAL INFORMATION

Eye contact Risk of damage to eyes. Exposure can lead to irritation/burning, eye pain, conjunctivitis, swelling of eye and swelling of eyelid.

Skin Contact Prolonged skin contact can cause irritation, rash and itching.

Inhalation Breathing in high concentrations of vapours or aerosols of this material may cause respiratory irritation/burning, irritation to mouth/throat/nose, coughing/choking, chest pain, disorientation, dizziness, shortness of breath.

Ingestion Ingestion may result in vomiting/nausea/abdominal pain, dizziness, and headache.

Skin Sensitisation Product is not a skin sensitiser.

Chronic effects None expected with normal use and exposure, does not accumulate in body tissue, not carcinogenic or mutagenic.

ANIMAL ACUTE TOXICITY DATA (Product)

Oral: LD ₅₀ (rat)	>5000 mg/kg
Dermal: LD ₅₀ (rabbit)	>5000 mg/kg
Inhalation: LC ₅₀ rat	25 mg/ℓ air

12. ECOLOGICAL INFORMATION (Active ingredient)

ECOTOXICITY	Aquatic	Fish - Acute LC ₅₀ (96hr) 1.16 mg/ℓ (<i>Oncorhynchus mykiss</i>)
:	Organisms:	Fish - Chronic 21-day NOEC 0.032 mg/ℓ (<i>Brachydanio rerio</i>) Aquatic invertebrates - Acute LC ₅₀ (96hr) 0.094 mg/ℓ (<i>Daphnia magna</i>) Aquatic invertebrates - Chronic 21-day NOEC 0.01 mg/ℓ (<i>Daphnia magna</i>) Algae EC ₅₀ 0.026 mg/ℓ (<i>Selenastrum capricornutum</i>) Algae 48-hour NOAEC 0.014 mg/ℓ (<i>Selenastrum capricornutum</i>)
	Bees:	Not toxic to bees. Acute contact (product) LD ₅₀ > 100 g a.i./bee (<i>Apis mellifera</i>)
	Birds:	Not hazardous to birds. LC ₅₀ Oral > 5620 ppm (bobwhite quail) NOEC 1780 ppm (bobwhite quail)

Persistence and Degradability:

Bioaccumulation is not expected to be significant.

This product is **readily biodegradable**.

No long-term influence on nitrogen or carbon transformation in soils.

DDAC is **not mobile in soil**

13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

Invert empty container over bucket/ tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Offer container for recycling or puncture and dispose of at authorised landfill. Do not use container for any other purpose.

14. TRANSPORT INFORMATION

UN NUMBER: None allocated

PROPER SHIPPING NAME:

ADR RID CLASSIFICATION

PACKING GROUP:

HAZARD WARNING: None

15. REGULATORY INFORMATION

Fulfil SANS 490 SANS 5261

16. OTHER INFORMATION

Date of Preparation: 29 July 2020

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Issue No. 1.2 – Minor amendments made to SDS.

This information concerns only the product conforming to its specifications and limits to the uses herein stated. This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on date of publication. It is given in good faith.

The data does not signify any warranty with regard to the product properties. This Safety Data Sheet (SDS) summarises to our best knowledge the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

Care for the environment is essential for our future.

END of SDS