

	SAFETY DATA SHEET	Version: 2 Revision date: 2026-07-03
	ViProBAC	VPB-01

This SDS conforms to the Globally Harmonised System (GHS), South African Regulations on Hazardous Chemical Agents, and SANS 10234, SANS 11014 & SANS 10228.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	ViProbac Surface Disinfectant
Other means of identification	Disinfectant
Recommended Intended Purpose	Disinfectant / antimicrobial solution
Company Information	Viprobac (Pty) Ltd 31 Suikerbekkie, Joostenberg Vlakte, Cape Town, Western Cape, 7570 Email: johanvz@viprobac.co.za Website: www.viprobac.co.za
Emergency Telephone	072 124 1640 – Viprobac - 24-hour emergency response number 0800 172 743 - Rapid Spill Response - 24 hours, 7 days a week
Manufacturer	Viprobac (Pty) Ltd

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance - GHS classification as published through ECHA

Hazard Classification		Category	Hazard Statement	
Serious eye irritation		2	H319	Causes serious eye irritation
Aquatic toxicity		2	H401	Toxic to aquatic life
Hazard Pictograms		 		
Signal Word		Warning		
Precautionary Statements				
General:	P101 P102 P103	If medical advice is needed, have the product container or label at hand Keep out of reach of children Read carefully and follow all instructions		
Prevention	P264 P270 P273 P280	Wash hands thoroughly after handling Do not eat, drink or smoke when using this product Avoid release to the environment Wear protective gloves/protective clothing/eye protection/face protection.		
Response	P304 + P340 + P313 P301 + P330 + P331 P303 + P361 + P353 P305 + P351 + P338 P391	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention IF SWALLOWED: Rinse mouth. Do NOT induce vomiting IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water/shower IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing Collect spillage		
Storage	P403 P405	Store in a well-ventilated place. Store locked up		
Disposal	P501	Dispose of contents/container in accordance with local regulations		
Main Hazard	Irritant Toxic to aquatic life			

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

CAS No	Name	%
Proprietary	Stabilised Zinc Ion System	0.5 - 2%
Proprietary	Stabilised Copper Ion System	0.5 - 2%
Proprietary	Acidic buffering system	Proprietary
Non hazardous	Water	Balance

Copper and zinc are present primarily as soluble nitrate species in the final mixture. Exact composition withheld as a trade secret

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4. FIRST AID MEASURES

In the case of inhalation	If adverse effects occur, remove them to an uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention
In case of skin contact	Wash exposed skin with soap and water for at least 20 minutes. Remove and dispose of contaminated clothing. Seek medical attention.
In case of eye contact	Flush eyes with plenty of water for at least 20 minutes. Seek medical attention.
In case of ingestion	If a large amount is swallowed, get medical attention. Do NOT induce vomiting.
Treatment (Advice to doctor)	Provide this SDS or at least the label to the doctor

SECTION 5. FIRE-FIGHTING MEASURES

Fire / Explosion hazard:	Non-flammable
Suitable extinguishing media	Use water spray, foam, or dry chemical.
Unsuitable extinguishing media	None Known
Special hazards arising from the substance	Wear full protective firefighting gear, including a self-contained breathing apparatus (SCBA) for protection against possible exposure.
Special protective equipment for firefighters	Releases toxic fumes under heat

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear personal protective clothing and equipment, see Section 8.
Environmental precautions	Keep unnecessary people away, isolate hazard areas, and deny entry. Prevent entry into drains Avoid release to the environment (above recommended dosage) Avoid heat. Avoid the use of metal items for clean-ups.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Use only with adequate ventilation
Prevention of exposure of the handler to the chemical product.	Use prescribed PPE as per section 8
Precautions for the prevention of contact with incompatible substances or mixtures.	Avoid mixing with strong oxidisers and incompatible chemicals
Storage measures for separation from incompatibles and mixtures.	Store in original containers
Requirements for storage rooms and vessels	Keep the container tightly closed Store in a well-ventilated place.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No known limits identified

Respiratory protection	Keep a self-contained breathing apparatus readily available for emergency use. Suggest: Acid gas cartridge respirator
Hand protection	Gloves (nitrile/PVC)
Eye protection	Safety goggles.
Skin and body protection	Long sleeves and pants.
Engineering Controls	General methods include forced-draft ventilation, separate from other exhaust ventilation systems. Ensure that sufficient fresh air enters at or near floor level.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Blue
Odour	Mild acidic odour
pH	4.5 (undiluted)
Boiling point	~120°C
Solubility: Water	Fully soluble
Viscosity	Not determined
Flash point	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No reactive
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous reactions	None
Conditions to avoid	Never expose the product to excessive heat.
Incompatible materials	Avoid mixing with strong oxidisers and incompatible chemicals
Hazardous decomposition products.	Produces nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

- May cause eye irritation and mild skin irritation after prolonged exposure
- Inhalation may irritate the respiratory tract

Acute toxicity:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified

SECTION 12. ECOLOGICAL INFORMATION

Information on ecological effects:

- Toxic to aquatic organisms (due to copper/zinc)
- Avoid environmental release

Toxicity to fish	The product is classified as harmful to aquatic life due to the presence of copper and zinc compounds. Toxic effects are primarily associated with dissolved metal ions, which may adversely affect aquatic organisms, particularly in small or poorly diluted water bodies if used above recommended dosages.
Toxicity to daphnia and other aquatic invertebrates	No data available for the mixture Avoid release to the environment above recommended dosages. Small spill into river: Potential fish kill (especially small water bodies) Diluted discharge: Still harmful over time (chronic toxicity)
Persistence & degradability	Controlled use (e.g. surfaces): Low risk if not entering waterways The product contains inorganic substances. Copper and zinc compounds do not biodegrade and may persist in the environment.
Bioaccumulation	

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Mobility	Copper and zinc ions may bioaccumulate in aquatic organisms over time. The degree of bioaccumulation depends on environmental conditions such as concentration, pH, and water hardness. The product is water-soluble and may migrate through soil and water systems. Metal ions may bind to soil particles or remain mobile depending on soil composition, pH, and environmental conditions.
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

- Dispose via licensed waste contractor

Packaging:

- Treat all packaging as contaminated and dispose of it through licensed contractors and landfills as per the local legislation.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous goods for transport according to ADR/RID, IMDG, and IATA regulations

Environmental hazards do not trigger marine pollutant classification at the stated concentrations.

UN Pictogram



Land and inland navigation transport ADR/RID

Suggest using Class 9 miscellaneous

Marine transport IMDG

Suggest using Class 9 miscellaneous

Air transport ICAO/IATA-DGR

Suggest using Class 9 miscellaneous

Special precautions for user

The protective measures listed in Sections 6, 7, and 8 of the Safety Data Sheet have to be considered.

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific to the substance or mixture:

Occupational Health and Safety Act, Hazardous Chemical Agents Regulations

SANS 11014:2010 Edition 1

SANS 10228:2012 Edition 6

SANS 10234:2019 Edition 2

SUPPLEMENT TO SANS 10234 Edition 1

National Road Traffic Act

Dangerous Goods Regulations

SECTION 16. OTHER INFORMATION

SELECTED BIBLIOGRAPHY

1. Emergency Response Handbook - Annex A of SABS 0232-3
2. GHS Purple booklet
3. ECHA
4. Occupational Health and Safety Act, Hazardous Chemical Agents Regulations
5. SANS 11014:2010 Edition 1
6. SANS 10228:2012 Edition 6
7. SANS 10234:2019 Edition 2
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Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not, therefore, be construed as guaranteeing any specific property of the product.