SHIELD Medica Limited
Unit 3, Endeavour Drive, Basildon Essex, SS14 3WF, United Kingdom
T. +44 1708 377 731 | F. +44 (0) 1708 347 637 | info@shieldmedica.com
www.shieldmedica.co.uk

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Identification of the substance

Product Name	:	SHIELDme Disinfectant
Other Names	:	Electronically Activated Water
General Use	:	Biocide
Chemical Name	:	Water
Chemical Family	:	Water

Company identification

Address	:	Shield Medica Limited Unit 3, Endeavour Drive, Basildon, Essex, SS14 3WX, United Kingdom
Telephone	:	+44 (0) 1708 377731
Fax	:	+44 (0) 1708 347637
Web-site	:	www.shieldmedica.co.uk
Date of Preparation	:	March 22, 2020

2. PRODUCT INFORMATION

Chemical Name	CAS-No	EINECS-No	Wt/Vol %	Symbols
Sodium chloride	7647-14-5	231-598-3	0.2 – 0.4	NaCl
Hypochlorous acid	7790-92-3	232-232-5	0.01 – 0.02	HOCl
Sodium chlorate	7775-09-9	231-887-4	0.002	$NaClO_3$
Water	7732-18-5	231-791-2	99.788 – 99.578	H_2O

Comments: product ranges shown are typical values for Health, Safety and Environmental purposes and are not intended to be used as Specifications.

3. HAZARD IDENTIFICATION

Physiochemical effects: Not classified. No hazard expected under normal conditions of use.
Human health effects: Not classified. No hazard expected under normal conditions of use.

SHIELD Medica Limited
Unit 3, Endeavour Drive, Basildon Essex, SS14 3WF, United Kingdom
T. +44 1708 377 731 | F. +44 (0) 1708 347 637 | info@shieldmedica.com
www.shieldmedica.co.uk

4. FIRST AID MEASURES

Inhalation: Non-irritating. Remove to fresh air. Seek medical attention if ill effects occur.
Ingestion: Do not induce vomiting. Give plenty of water to drink. Seek medical attention if ill effects occur.
Skin contact: Non-irritating. Remove contaminated clothing immediately and wash skin with plenty of water. Seek medical attention if ill effects occur.
Eyes: Non-irritating. Immediately flush eyes with plenty of water for several minutes. Seek medical attention if ill effects occur.

5. FIRE FIGHTING MEASURES

The product is not flammable.

6. ACCIDENTAL RELEASE MEASURES

Wash to waste with plenty of water.

7. HANDLING AND STORAGE

Handling: No special precautions

necessary.
Storage: Store in a closed, dark container at 5 - 35°C away from light.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit: There are no recommended or established controls for this product.
Protective Equipment: Avoid prolonged contact with the skin. Use good personal hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colourless, odourless aqueous solution with pH 6.5 - 7.5

10. STABILITY AND REACTIVITY

No hazardous reactions are known if used for its intended purpose.
The product is considered stable under normal conditions of temperature and pressure and when stored in a closed, dark container. The product has a shelf life of 12 months.

SHIELD Medica Limited
Unit 3, Endeavour Drive, Basildon Essex, SS14 3WF, United Kingdom
T. +44 1708 377 731 | F. +44 (0) 1708 347 637 | info@shieldmedica.com
www.shieldmedica.co.uk

11. TOXICOLOGICAL INFORMATION

LD_{50} (oral, rat) > 10000 mg/kg < 40000 mg/kg
LD_{50} (dermal, rat) > 10000 mg/kg
Inhalation LD_{50} – not available

12. ECOLOGICAL INFORMATION

The product presents no hazard to the environment.

13. DISPOSAL CONSIDERATION

No special precautions are required for this product.

14. TRANSPORT INFORMATION

Not classified as dangerous for transport by RID/ADR, IMDG, IATA
Proper shipping name: Not applicable

15. REGULATORY INFORMATION

Health, safety and environment information shown on the label according to EU directives:
The product is not classified as dangerous according to EU-directive 1999/45/EC.

16. OTHER INFORMATION

The product is an aqueous solution containing mainly hypochlorous acid as active ingredient intended for use as a biocide.

Risk phase key 31 – contact with acid liberates a toxic gas.

Prolonged contact with metal may lead to corrosion. Exposed metal areas must therefore be rinsed with water after use.

MICROBAC®

SARS-CoV-2/COVID-19 Virus Testing Unaudited Interim Report

Testing Facility: Microbac Laboratories, Inc.
105 Carpenter Drive
Sterling, VA 20164

Sponsor: Shield Medica LTD
Essex
UK

Protocol No.: SHIELD.1.04.30.20

Test Product: Shieldme, Lot No. FM/100/4

Test Product Dilution: Not applicable (ready-to-use)

Study Director: Cameron Wilde

Method: EPA OCSPP 810.200 and 810.2200 using ASTM E1053-11

Test Dates: 05/12/20 – 05/19/20

All Controls Valid (Y/N): Y

Results/Conclusion:

The product Shieldme, Lot No. FM/100/4, when tested according to ASTM E1053-11, passed with a ≥ 4.00 Log_{10} reduction, equal to a 99.99% reduction, at a contact time of 30 seconds when SARS-CoV-2 (COVID-19 Virus), containing 5.0% serum, was tested at 20°C with a relative humidity of 30%. All controls met the required criteria and there were no deviations to the study protocol. Therefore, this study is considered valid.

The product listed has been shown to be effective in inactivating/killing SARS-CoV-2 (COVID-19) strain which causes COVID illnesses.

A complete final report detailing the study described above will be prepared and provided at a later date.

Signatures:

05/27/2020
Study Director / Date

05/27/2020
Reviewed by / Date