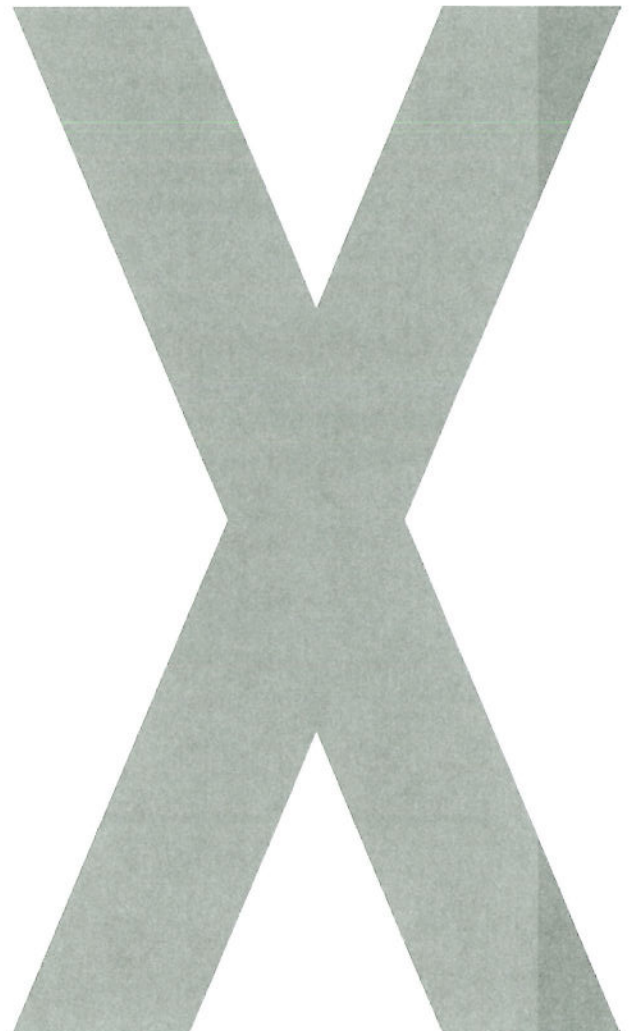


Virkon™ S
Safety of 1% Solutions

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2. Hazard Classification

All information refers to diluted solutions of Virkon™ S at a concentration of 1% or lower in water, unless specified otherwise, and is made in accordance with European Regulation (EC) No 1272 /2008 on classification, labelling and packaging of substances and mixtures^[1].

Hazard pictograms: None (not classified as dangerous)
Signal word: None
Hazard statements: None
Precautionary statements: None

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3. Basis for Hazard Classification

According to the European Regulation on classification, labelling and packaging of substances and mixtures (1272/2008 – CLP), 1% solutions of Virkon™ S are not classified as dangerous. The justification for this is summarised below.

Calculation methods referred to below are those described in the abovementioned CLP regulation.

3.1. Toxicological profile

Endpoint	Result	Justification
Skin irritation	Not irritating	Calculation method
Eye irritation	Not irritating	Calculation method and independent test data following OECD Test Guideline 405 (eye irritation)
Skin sensitisation	Not sensitising	Calculation method and independent test data following OECD Test Guideline 406 (skin sensitisation)
Acute oral toxicity	Not harmful	Independent test data according to OECD 401 for Virkon™ S powder demonstrating that the product has a low toxicity and therefore not harmful. Dilution to 1% will reduce the toxicity proportionally, to the extent that it is considered to be of very low toxicity
Acute dermal toxicity	Not harmful	Independent test data for Virkon™ S powder demonstrating that the product has a low toxicity and therefore not harmful. Dilution to 1% will reduce the toxicity proportionally, to the extent that it is considered to be of very low toxicity
Acute inhalation toxicity	Not harmful	Calculation method

4. First Aid Advice

4.1. Human Exposure

Whilst the solutions will not cause skin/mucous membrane irritation and eye damage/irritation within the meaning of European Regulations on hazard classification, contact with eyes may cause discomfort and skin contact may lead to mild skin irritation in some cases and with sufficient contact. Therefore, where contact with skin or eyes is expected, skin coverings and eye protection are recommended.

When facing spray mists and aerosols of the diluted product, respiratory protection may also be required, depending on the extent of potential exposure.

4.2. First aid advice

Route of exposure	Potential symptoms	Response
Inhalation	Mild irritation, coughing	If irritation or discomfort occurs following inhalation, remove from exposure. Use PPE and/or ventilation
Ingestion	Upset stomach, nausea	Ingestion of the solution is unexpected as a route of exposure. In case of ingestion, give small quantities of water to drink. Stop if the person feels sick. Seek medical attention
Skin contact	Mild irritation, reddening	In case of irritation flush skin with plenty of water
Eye contact	Irritation, watering, reddening, discomfort	Flush with water. If irritation persists, seek medical attention

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5. Fire-fighting measures

As an aqueous solution without any physical or chemical properties of concern to firefighting (e.g. flammability, oxidisation), contact of 1% Virkon™ S solutions will suppress any fire that it comes in contact with.




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7.3. heavy spraying, large area



PPE:    

For open cab vehicles, respiratory protection is often required for nuisance/discomfort mists

 e.g. FFP2  Or FFP2 half/full mask if saturation of paper mask may 

Task: Application of Virkon™ S 1% solutions by low-pressure spraying to surfaces and equipment in LARGE livestock facilities using vehicle mounted equipment. Open cab. Low/moderate ventilation.

7.4. Fogging/fine misting applications



PPE:    



Task: Application of Virkon™ S solutions by high-pressure spraying. Very fine droplet sizes (1-50 µm) and heavy misting/fogging. Normally within enclosed areas.

8. Stability and Reactivity

The product is considered to be stable at normal temperature ranges within which it is used.

Avoid contact with alkalis, acids, halides and metal salts.