

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

Stalosan F

1.2 Relevant identified uses of the substance or mixture and uses advised against Disinfection agent

1.3 Details of the Supplier of the Safety Data Sheet

Supplier Stormøllen A/S
Ulsnæs 34
DK-6300 Gråsten
Danmark
Tel: +45 33 68 56 00
Mail: vitfoss@vitfoss.dk

1.4 Emergency telephone number

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.2. Classification according to Directive 1999/45/EC

Not applicable see paragraph 15.

2.2 Label elements

Not applicable see paragraph 15
Safety data sheet are available for professional user

Contains:

2.3 Other Hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Classification according to Directive (EC) No 1999/45

Name	EC-no	CAS-no	Wt %	Symbols	Risk phrases
Iron sulphate	231-753-5	7720-78-7	4-5	Xn	R22, R36/38
Iron oxide *	215-168-2	1309-37-1	2-3	N	R51/53
Copper sulphate	231-847-6	7758-98-7	< 1,0	Xn, N	R22, R36/38, R50/53

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Classification according to CLP Regulation (EC) No 1272/200

Name	EG-no	CAS-no	Wt %	Hazard statements
Iron sulphate	231-753-5	7720-78-7	1-2	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319
Iron oxide *	215-168-2	1309-37-1	< 5	Aquatic Chronic 2 H411
Copper sulphate	231-847-6	7758-98-7	< 1,5	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Aquatic Chronic 1 H410

* Official Classification of Iron Oxide missing. Classification retrieved from the Swedish database “Chemical substances”.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Fresh air.
Ingestion	Rinse mouth and drink a couple of glasses of water
Skin contact	Wash skin with water.
Eye contact	Wash with water or physiological saline solution for several minutes. Remove contact lenses. Hold eyelids open. If irritation persists: Seek medical attention.

4.2 The most important symptoms and effects, both acute and delayed

Ingestion	May cause nausea, vomiting and constipation.
Inhalation	May cause irritation.
Skin contact	May cause mild skin irritation
Eye contact	May cause redness and irritation..

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media,

Not combustible. Choose extinguishing media depending on what is burning in the surroundings.

5.2 Special hazards arising from the substance or mixture

From fire may corrosive gases form. Cleanup may be needed after a fire.
Also, prevent the extinction water / foam to reach ground water, water, water source, drain and wastewater treatment because the substance may have been contaminated the fire water / foam. Contain, collect and take care of contaminated firefighting water / foam.

5.3 Advice for firefighters

No specific for the product

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment according to section 8.

6.2 Environmental precautions

Avoid spills and / or discharges into the wastewater system. Inform the local authorities if released to the environment.

6.3 Methods and materials for containment and cleaning up

Dispose of waste and residues are taken up and placed in suitable containers with inscription of content. Wash with water.

6.4 Reference to other sections

See Section 8 for personal safety equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

See section 8

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place at room temperature

7.3 Specific end uses

Not relevant

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

See national legislation

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Eye wash equipment should be available at the workplace.

8.2.2 Personal protection equipment

Respiratory protection	In the presence of dust, wear protective mask, type P2S
Skin protection	Use clean working clothes. If necessary, use gloves.
Eye protection	Where necessary use eye protection

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Powder
Colour	Pinkish
Odour	Slightly acidic
Density	no information
Boiling point	no information
Flash point	no information
pH	approx 3,5
Ignition point	no information
Vapour pressure	no information
Solubility	Slightly soluble

9.2 Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity
No information

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
No information

10.4 Conditions to avoid
No information

10.5 Incompatible materials
Not applicable

10.6 Hazardous decomposition products
Not applicable

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Ingestion	LD50 Rat: 319 mg / kg bw (Iron sulphate)
	LD50 Rat: > 10000 mg / kg bw (Iron oxide)
	LD50 Rat: 300 mg/kg bw (Copper sulphate)

Skin contact

Inhalation

Eye contact

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Name	Result	Species	Exposure
Iron sulphate	LC50 Fish 96h: 1,1-4,8 mg/l	Salvelinus fontinalis	96 hours
	EC50 Daphnia < 140 mg/l	Daphnia	48 hours
Copper Sulphate	LC50 Fish 96h: 0,286 mg/l	Oncorhynchus Kisutch	96 hours
	EC50 Daphnia 0,082mg/l	D. Pulex	48 hours
	IC50 Algae: 0,0217 mg/l	Selenastrum capricornutum	72 hours

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12.2 Persistence and degradability

Name	Biodegradation
	No information

12.3 Bioaccumulative potential

Name	LogP _{ow}	BCF
Copper Sulphate	< 0	667

12.4 Mobility in soil

No additional information

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects

No additional information

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Not classified as hazardous waste

14. TRANSPORT INFORMATION

14.1 UN-number

Not classified as hazardous goods

14.2 UN proper shipping name

-

14.3 Transport hazard class(es)

-

14.4 Packing group

-

14.5 Environmental hazards

-

14.6 Special precautions for user

-

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification according to Directive (EC) No 1999/45

15.2 Chemical Safety Assessment

Chemical Safety Assessment has not been conducted

16. OTHER INFORMATION

Relevant R-phrases and/H-statements

- R22 Harmful if swallowed.
- R36/38 Irritating to eyes and skin
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.