

SAFETY DATA SHEET

Safety data sheet according to (EF) no. 1907/2006.

POINT 1: Identification of material/compounds and of the company/factory

1.1. Product identifier:

Staldren®

1.2. Relevant identifying use of the material or compound and the usage that is contraindicated:

Dry hygiene solution for stables.

1.3. Detailed information about the supplier for the safety data sheet:

Jorenku A/S
Teglvaerksvej 11
4733 Tappernoeye
Denmark
Tel.: +45 56214070

Responsible for safety data sheet (e-mail): jorenku@jorenku.dk

1.4. Emergency phone:

Public Poison information line: 01 809 21 66 8 am-10pm 7 days a week
National Poison Information Centre: 01 837 9964 or 01 809 2566

POINT 2: Identification of danger

2.1. Classification of the material or compound:

CLP (1272/2008): None.

2.2. Label elements:

EUH 208: Contains Chloramine-T, sodium salt. May produce an allergic reaction.
EUH 210: Safety data sheet available on request.

2.3. Other dangers:

PBT/vPvB: The ingredients are not PBT/vPvB according to the criteria in REACH annex XIII.
Endocrine disrupting properties: The ingredients are not considered endocrine disruptors according to the criteria of Regulation 2017/2100 or Regulation 2018/605.

POINT 3: Compensation of/information about contents

3.1. Compensation of/information about contents

3.2. Compounds:

Substance name	CAS	EF-No.	Index-no.	REACH reg.no.	Substance Classification	Note
Chloramin T, sodium salt	127-65-1	204-854-7	616-010-00-9	-	Acute Tox. 4;H302 Skin Corr. 1B;H314 Eye Dam. 1;H318 Resp. Sens. 1;H334 EUH031	1
Iron oxide	1309-37-1	215-168-2	-	01-2119457614-35	-	2

1) ATE (oral) = 935 mg/kg
Version 2

Revision date 5. August 2022

Page 1 of 6

2) The substance has a limit value.
The wording of the hazard statements - see paragraph 16.

POINT 4: First aid measures

4.1. Description of first aid measures:

Inhalation: Bring the person to fresh air. Blow the nose. Keep calm under supervision. In case of discomfort or allergic symptoms: Seek medical attention.
Skin: Remove contaminated clothing. Rinse skin and wash thoroughly with soap and water. In case of discomfort: Seek medical attention.
Eyes: Thoroughly rinse with water or physiological saline. If possibly remove contact lenses and open the eye wide. By continued irritation: Seek medical attention.
Ingestion: Immediately rinse mouth thoroughly and drink water in copious amounts. Keep under supervision In case of discomfort: Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

Dusty powder can cause sneezing, runny nose and cough. Dust irritates the eyes with redness and watery eyes. An allergic reaction may occur with possible asthma symptoms or shortness of breath.

4.3. Indication of whether emergency medical attention and special treatment are needed:

Show this safety data sheet to doctors or casualty ward.

POINT 5: Fire suppression

5.1. Suppression methods:

Not flammable. Against surrounding fire: Water fogging (never water jet - spreads the fire), foam, powder or carbon dioxide.

5.2. Special dangers in connection with the material or compound:

In case of fire, corrosive hydrogen chloride and chlorine are released.

5.3. Indication for a fire department:

Use compressed air mask for heavy smoke from surrounding fire.

POINT 6: Accidental release measures

6.1. Personal precautions, personal protective equipment, and emergency procedures:

Use personal protective equipment - see point 8. Limit dust formation. Ensure good ventilation.

6.2. Environmental protection indications:

Avoid discharge to drains - see point 12. Inform local environmental authorities in case of spillage to the environment.

6.3. Methods and equipment for containment and cleaning:

Collected and handled as chemical waste. Rinse thoroughly with water. Further waste handling - see point 13.

6.4. References to other points:

See above.

POINT 7: Handling and storage

7.1. Measures for safe handling:

Avoid dust formation and spreading. Ensure effective ventilation. Avoid inhalation of dust and contact with skin and eyes. After use, wash with plenty of water and soap. Work must take place separate from

acids (acid will release toxic and volatile chlorine fumes).

7.2. Conditions for safe storage, including any incompatibility:

In well-closed original container; cool and protected from moisture.

7.3. Special usage:

See use - point 1.

PUNKT 8: Exposure control/personal protective equipment

8.1. Control parameter:

AT-limit value (reg. 1054 of 28.06.2022):

	8-hours limit value	Short-term limit value	Anm.
Iron oxide, Fe	3,5 mg/m ³	7 mg/m ³	-
Mineral dust, inert	10 mg/m ³	20 mg/m ³	-
Mineral dust, inert, respirabel	5 mg/m ³	10 mg/m ³	-

DNEL/PNEC: None set.

8.2. Exposure control:

Appropriate measures for exposure control: Provide effective ventilation, especially if the product is blown into the stable.

Personal protective equipment:

Inhalation: By dusty work: Use approved mask (EN149) with particle filter P2. The filters have a limited service life (must be changed). Read the manufacturer's instructions.

Skin: Use protective gloves (EN374) of nitrile rubber. Breakthrough time: 8 hours.

Eyes: Close-fitting safety glasses (EN166) in case of risk of eye contact.

Environmental exposure controls: None specific.

POINT 9: Physical and chemical characteristics

9.1. Information about basic physical and chemical characteristics:

Appearance:	Powder
Colour:	Rusty red
Odor:	Characteristic
Melting point/freezing point (°C):	Not decided
Boiling point or bubble-point and boiling point interval (°C):	Not decided
Ignitability (solid, gaseous):	Not decided
Upper/lower explosion limits (vol-%):	Not decided
Flash point (°C):	Not decided
Auto-ignition temperature (°C):	Not decided
Self-accelerating decomposition temperature (°C):	Not relevant
pH:	7,3
Kinematic viscosity (mm ² /s at 40°C):	Not decided
Solubility (mg/l):	Soluble in water
Partition coefficient n-octanol/water Log K _{ow} :	Not relevant – solution (see point 12)
Vapor pressure (hPa, 20°C):	Not decided
Density and/or relative density (g/cm ³):	1,073-1,089
Relative vapor density (air=1):	Not decided
Particulate properties:	No information

9.2. Other information:

None relevant.

POINT 10: Stability and reactivity

10.1. Reactivity:

No known.

10.2. Chemical stability:

Stable under recommended storage conditions, minimum 2 years.

10.3. Risk of dangerous reactions:

No known.

10.4. Conditions that should be avoided:

Avoid heating (toxic chlorine gas is formed when heated).

10.5. Materials that should be avoided:

Avoid all contact with acids (chloramine T, sodium salt releases toxic and volatile chlorine by contact with acid) as well as contact with reducing agents, powder metals and ammonium compounds.

10.6. Dangerous decomposition products:

By strong heating, toxic chlorine gases and corrosive hydrogen chloride are formed.

POINT 11: Toxicological information

11.1. Information about hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproduction toxicity: Based on available data, the classification criteria are not met.

Single STOT-exposure: Based on available data, the classification criteria are not met.

Repeated STOT-exposures: Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Danger class	Data	Test	Data source
Acute toxicity:			
Inhalation	LC ₅₀ (rat) > 4.2 mg/l/4h (Chloramine-T, sodium salt)	Not informed	ECHA
Dermal	LD ₅₀ (rat) > 2000 mg/kg (the solution)	Not informed	Scantox
Oral	LD ₅₀ (raat) = 935 mg/kg (Chloramine-T, sodium salt)	Not informed	ECHA
	LD ₅₀ (rat) > 2000 mg/kg (the solution)	Not informed	Scantox
	LD ₅₀ (rat) > 5000 mg/kg (Iron oxide)	Not informed	Supplier
Corrosivity/irritation:	Skin corrosive, rabbit (Chloramine-T, sodium salt)	OECD 404	ECHA
	Eye corrosive, rabbit (Chloramine-T, sodium salt)	OECD 405	ECHA
Sensitisation:	Respiratory sensitizing, huma (Chloramine-T, sodium salt)	Not informed	ECHA
CMR:	No mutagenic, carcinogenic or toxic to reproduction effects.	More different	ECHA

Usual exposure methods: Lungs, skin and gastrointestinal tract.

Inhalation: Dust can have an irritating effect on the mucous membranes of the respiratory tract with throat ache and cough and shortness of breath. When chlorine vapor is formed, there may be a risk of water in the lungs (lung edema). Be aware that the symptoms (shortness of breath) can occur several hours after exposure.

Skin: May be mild irritating.

Eyes: May be irritating with redness and sting.

Ingestion: May be absorbed through the gastrointestinal tract.

Chronic effects: Frequent inhalation of dust over a long period of time can cause lung diseases and allergic airway diseases to Chloramine-T, sodium salt. The substance is excreted in very small amounts in breast milk, but the risk of side effects in the child is low.

11.2. Information about other hazards: None known.

POINT 12: Environmental information

12.1. Toxicity:

Aquatic	Data (For Chloramine-T, sodium salt)	Test (Media)	Data source
Fish	LC ₅₀ (Fisch, 96h) = 31 mg/l	Not informed	ECHA
Crustacean	EC ₅₀ (Daphnia magna, 48h) = 4.5 mg/l	Not informed	ECHA
Alga	No available data	-	-

12.2. Persistence and degradability:

Chloramine-T, sodium salt is 90 % decomposed in 28 days and is therefore quickly degradable. Methods for determining the biodegradability do not apply to inorganic substances, which make up the majority of the solution.

12.3. Bioaccumulative potential:

Chloramine-T, sodium salt: Log K_{ow} = -0.50; BCF = 2.5 (no significant bioaccumulation).

12.4. Mobility in soil:

Chloramine-T, sodium salt is readily soluble in water and is not expected to be adsorbed in soil particles.

12.5. Results of PBT and vPvB assessment:

The ingredients are not PBT/vPvB according to the criteria in REACH annex XIII.

12.6. Endocrine-disrupting capacities:

None known.

12.7. Other adverse effects:

None known.

POINT 13: Removal

13.1. Methods for waste handling:

Use the local authority's collection scheme.

Chemical waste group: EAK-code:
H 02 01 06

POINT 14: Transport information

- 14.1. UN-number or ID-number:** None.
14.2. UN-shipment designation (UN proper shipping name): None.
14.3. Transport danger class(es): None.
14.4. Packaging group: None.
14.5. Environmental dangers: None.
14.6. Special regulations for the user: None.
14.7. Bulk transport by sea according to IMO instruments: Not relevant.

POINT 15: Information about regulations

15.1. Special determinations/special rules for the material or compound with respect to safety, health and environment:

None.

15.2. Chemical safety evaluation:

No CSR.

POINT 16: Other information

Hazard statements given under point 3:

- EUH 031: Contact with acids liberates toxic gas.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Abbreviations:

- AT = Working environment authority
CMR = carcinogenic, mutagenic, or toxic to reproduction
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC₅₀ = Effect Concentration 50 %
LC₅₀ = Lethal Concentration 50 %
LD₅₀ = Lethal dosage 50 %
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
FW = Fresh Water
vPvB = very Persistent, very Bioaccumulative

Literature:

- ECHA = REACH Registration dossier from ECHA's website
Scantox test reports

Advice on training / instruction:

The product may only be used by persons who are carefully instructed in the execution of the work and who have knowledge of the contents of this safety data sheet.

Changes since previous version:

8.

Made by: Alttox a/s - Tonsbakken 16-18 - DK-2740 Skovlunde - Tel. +45 38 34 77 98 / PH - Quality control PW
Translated by: Jorenku A/S - Teglvaerksvej 11 - DK-4733 Tappernoeye - Tel. +45 56 21 40 70 / LVB