JORENKU Staldren®

Jorenku A/S
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SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006.

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier:
Staldren®

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Hygiene powder for stables.

1.3. Details of the supplier of the safety data sheet:
Jorenku A/S
Teglvaerksvej 11
4733 Tappernoeje
Denmark
Tel.: +45 56214070

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

1.4. Emergency telephone number:
Contact the poison centre in your own country.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:
CLP (1272/2008): None.

2.2. Label elements:
EUH208: Contains tosylchloramide sodium. May produce an allergic reaction.
EUH210: Safety data sheet available on request.

2.3. Other hazards:
PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.
Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

SECTION 3: Composition/information on ingredients

3.1: Composition/information on ingredients
3.2. Mixtures:

Substance name	CAS	EC-No.	Index-no.	REACH reg.no.	Substance Classification	Note
Tosylchloramide sodium	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	-	-

1) ATE (oral) = 935 mg/kg
Wording of hazard statements – see section 16.

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SECTION 4: First-aid measures

4.1. Description of first aid measures:

Inhalation: Remove to fresh air. Keep at rest. In case of discomfort or allergic reactions: Seek medical advice.

Skin contact: Remove contaminated clothing and wash skin with water and mild soap. In case of skin rash, wounds or other skin disorders: Seek medical advice.

Eye contact: Flush with water or physiological salt water, holding eyelids open, remember to remove contact lenses, if any. If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. In case of discomfort: Seek medical advice.

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

Dusty powder may cause sneezing, running nose and coughing. Dust causes eye irritation with redness and tear flow. May cause an allergic reaction (allergy or asthma symptoms or breathing difficulties if inhaled).

4.3. Indication of any immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Not combustible. Use water spray (never water jet), dry chemical, foam or carbon dioxide against surrounding fire.

5.2. Special hazards arising from the substance or mixture:

In case of fire, the product may form corrosive hydrogen chloride and chlorine.

5.3. Advice for firefighters:

Use breathing apparatus with an independent source of air in case of surrounding fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section 8. Reduce dust generation. Ventilate area of leak or spill.

6.2. Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Sweep up and place in a suitable container. Flush area of spill with plenty of water. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid generation of dust and spreading. Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes.

After use wash with soap and plenty of water. Work must be performed separated from acids (acid causes release of toxic and volatile chlorine vapours).

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7.2. Conditions for safe storage, including any incompatibilities:
Store in a tightly closed container at a cool, dry place.

7.3. Specific end use(s):
See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

	8-hours limit value	Short-term limit value	Anm.
Klor	1.5 mg/m^3 /0.5 ppm	1.5 mg/m^3 /0.5 ppm	EU, Y

EU: Limit value set by Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks of exposure to chemical agents at work.
Y: Substances for which there is no danger to the fetus taking into account the limit values and BAT values.

DNEL/PNEC: None set.

8.2. Exposure controls:
Appropriate engineering controls: Provide adequate ventilation - especially if the product is blown out into the barn.
Personal protective equipment:

Respiratory protection:	In case of dust formation: Use an approved mask with type P2 particle filter (EN 149). The filter has a limited lifetime and must be changed. Read the manufacturer's instructions.
Skin protection:	Wear protective gloves (EN374) of e.g. nitrile rubber. Breakthrough time: 8 Hours.
Eye protection:	Use safety goggles (EN166) when there is a risk of eye contact.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Powder
Colour:	Red
Odour:	Characteristic
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	Not determined
Flammability (solid, gas):	Not relevant
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	Not determined
Auto-ignition temperature (°C):	Not relevant
Decomposition temperature (°C):	Not determined
pH:	7.3
Kinematic viscosity:	Not determined
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density:	1.073-1.089
Relative vapour density:	Not relevant
Particle characteristics:	Not determined

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9.2. Other information: None relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity:
No available information.

10.2. Chemical stability:
Stable under normal conditions – minimum 2 years.

10.3. Possibility of hazardous reactions:
None known

10.4. Conditions to avoid:
Avoid heating (formation of toxic chlorine).

10.5. Incompatible materials:
Avoid all contact with acids (tosylchloramide sodium emits toxic and volatile chlorine in contact with acids). Avoid contact with reducing agents, metals in powder form and ammonium compounds.

10.6. Hazardous decomposition products:
When heated to very high temperatures (decomposition) it emits toxic gases: chlorine and corrosive hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on 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/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.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	LC_{50} (rat) > 4.2 mg/l/4h (Tosylchloramide sodium)	No info	ECHA
Dermal	LD_{50} (rabbit) > 2000 mg/kg (Mixture)	No info	Scantox
Oral	LD_{50} (rat) = 935 mg/kg (Tosylchloramide sodium)	No info	ECHA
	LD_{50} (rat) > 2000 mg/kg (Mixture)	No info	Scantox
	LD_{50} (rat) > 5000 mg/kg (Iron oxide)	No info	Supplier
Corrosion/irritation:	Skin corrosion, rabbit (Tosylchloramide sodium)	OECD 404	ECHA
	Eye corrosion, rabbit (Tosylchloramide sodium)	OECD 405	ECHA
Sensitization:	Respiratory sensitisation, human (Tosylchloramide sodium)	No info	ECHA
CMR:	No CMR effects.	Different	ECHA

Information on likely routes of exposure: Inhalation, skin and ingestion.

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Symptoms:

Inhalation: Dust may cause irritation to the airways with sore throat, coughing and shortness of breath. In case of creation of chlorine vapours there is a risk of lung oedema with symptoms (laboured breathing) that might occur several hours after exposure.

Skin: May cause mild irritation.

Eyes: May cause irritation with redness and pain.

Ingestion: May irritate the gastrointestinal tract.

Chronic effects: Prolonged or repeated skin contact may cause an allergic reaction (with allergy or asthma symptoms and breathing difficulties). The substance is excreted in very small amounts in breast milk, but the risk of side effects in the baby are small.

11.2. Information on other hazards: None known.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	**Data** (For tosylchloramide sodium)	**Test (Media)**	**Data source**
Fish	LC_{50} (Fish, 96h) = 31 mg/l	No data.	ECHA
Daphnia	EC_{50} (Daphnia magna, 48h) = 4.5 mg/l	No data.	ECHA
Alga	No available data.	-	ECHA

12.2. Persistence and degradability:
Tosylchloramide sodium is readily degradable (90 %, 28d).
Methods for the determination of the biological degradation is not applicable to inorganic substances.

12.3. Bioaccumulative potential:
Tosylchloramide sodium: Log K_{ow} = -0.50; BCF = 2.5 (no significant bio accumulative effect).

12.4. Mobility in soil:
Tosylchloramide sodium is easily soluble in water, and is therefore not expected to be absorbed on soil particles.

12.5. Results of PBT and vPvB assessment:
The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

12.6. Endocrine disrupting properties:
None known.

12.7. Other adverse effects:
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:
Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.
EWC-Code: 02 01 06

SECTION 14: Transport information

Not dangerous goods (ADR/RID/IMDG/IATA).
14.1. UN number or ID number: None.

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14.2. UN proper shipping name: None.
14.3. Transport hazard class(es): None.
14.4. Packing group: None.
14.5. Environmental hazards: No.
14.6. Special precautions for user: None.
14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
None.

15.2. Chemical safety assessment:
No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 3:
EUH031: 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:
CMR = Carcinogenicity, mutagenicity and reproductive toxicity.
CSR = Chemical Safety Report
DNEL = Derived No-Effect Level
EC_{50} = Effect Concentration 50%
FW = Fresh Water
LC_{50} = Lethal Concentration 50%
LD_{50} = Lethal Dose 50%
PBT = Persistent, Bioaccumulative, Toxic
PNEC = Predicted No-Effect Concentration
vPvB = very Persistent, very Bioaccumulative

Literature:
ECHA = REACH Registration dossier from the ECHA website.
Scantox test reports

Training advice:
No special training is required. However, the user should be well instructed in the execution of the task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:
Not relevant.

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