

MATERIAL SAFETY DATA SHEET

(According to Regulation (EU) 2020/878)

SPECTRAGEN



* 1. Product and company identification

1.1. Product Identifier

SPECTRAGEN

UFI : 9200-307E-G00W-U3JY

1.2. Relevant identified uses and uses advised against Surfaces' disinfectant for breeding and feed industry.

1.3. Details of the supplier of the safety data sheet

SYNTHESE ELEVAGE

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Tel: +33(0)2.99.06.10.06 – Fax: +33(0)2.99.06.10.11

E-mail: contact@syntheseelevage.com

1.4. Emergency telephone number

INRS: +33(0)1.45.42.59.59

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Synthèse Elevage: +33(0)2.99.06.10.06 (from Monday to Friday 8.30 am-5.30 pm)

* 2. Hazards identification

2.1. Classification

In compliance with Regulation (EC) n° 1272/2008:

Acute toxicity, category 4 (Oral) (Acute Tox. 4 (oral), H302)

Acute toxicity, category 3 (inhalation) (Acute Tox. 3 (inhal.), H331)

Skin corrosion, category 1B (skin Corr. 1B, H314)

Skin sensitization, category 1 (Skin Sens. 1, H317)

Eye damage, category 1 (Eye Dam. 1, H318)

Respiratory sensitization, category 1 (Resp. Sens. 1, H334)

Hazardous to the aquatic environment – acute hazard – category 1 (Aquatic Acute 1, H400)

Hazardous to the aquatic environment – chronic hazard – category 1 (Aquatic Chronic 1, H410)

2.2. Label elements

Labeling in compliance with EC regulation n° 1272/2008 and its amendments

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Substances contributing to hazard:

Glutaraldehyde - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides -
Didecyldimethylammonium chloride

GHS Pictogram:



GHS05

GHS06

GHS08

GHS09

Signal word:

Danger

Hazard Statement:

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H331: Toxic if inhaled

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H410: Very toxic to aquatic life with long lasting effects

Additional Hazard Information:

EUH071: Corrosive to the respiratory tract.

Precautionary Statement:

Prevention:

P260: Do not breathe mist/spray.

P264: Wash your hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: Wear respiratory protection

Response:

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Call a POISON CENTER or doctor/physician.

P333+P313: If skin irritation or a rash occurs: Get medical advice.

P362+P364: Take off contaminated clothing and wash before reuse.

Storage:

P403+233: Store in a well ventilated place. Keep container tightly closed.

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Disposal:

P501: Dispose of contents/container to a certified disposal contractor.

2.3. Other hazards

This mixture does not contain any substance considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or more, according to Annex XIII of Regulation (EC) n° 1907/2006.

This mixture does not contain substance considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or greater.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixture

Chemical name	Classification under Regulation (EC) 1272/2008	Concentration	Comments
Glutaraldehyde CE Nr: 203-856-5 CAS Nr: 111-30-8 REACH Nr: 01-2119455549-26 Index Nr: 605-022-00-X	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071	10 % ≤ - < 25 %	<i>Substance with OELs</i>
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides CE Nr: 270-325-2 CAS Nr: 68424-85-1 REACH Nr: 01-2119965180-41	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	10 % ≤ - < 25 %	-
Didecyldimethylammonium chloride CE Nr: 230-525-2 CAS Nr: 7173-51-5 REACH Nr: 01-2119945987-15-XXXX Index Nr: 612-131-00-6	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	< 10 %	-

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Phosphoric Acid CE Nr: 231-633-2 CAS Nr: 7664-38-2 REACH Nr: 01-2119485924-24-0021 Index Nr: 015-011-00-6	Skin Corr. 1B, H314	< 5 %	<i>Substance with OELs</i>
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* 4. First aid measures

4.1. Description of first aid measures

General board: If in doubt or if symptoms persist, always seek medical attention. Never give anything to an unconscious person. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air. Keep warm and at rest. In the event of inhalation of spray mist, seek medical attention immediately, showing the label. In the event of a large inhalation, transfer to hospital.

Ingestion: DO NOT MAKE VOMIT. Do not give anything by mouth. Seek medical attention immediately, showing the label. Transfer to hospital.

Contact with skin: Remove immediately contaminated clothing. Wash thoroughly with water and mild soap and continue rinsing for 15 minutes. In the event of an allergic reaction, seek medical attention.
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted.

Contact avec eyes: Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Remove contact lenses. Refer the patient to an ophthalmologist and show him the label.

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

In addition to the information under Description of first aid measures (above) and Indications of any immediate medical attention and special treatment needed (below), other symptoms and effects are described in section 11: Toxicological information.

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

Probable mucosal damage may contraindicate the use of gastric lavage.

* 5. Firefighting measures

5.1. Extinguishing media

Use water spray, foams, multipurpose ABC powder, carbon dioxide.
Do not use water stream.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. In the event of a fire, the following may be formed: carbon monoxide, carbon dioxide, nitrogen oxide. Prevent extinguishing water from entering drains or waterways.

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5.3. Advice for firefighters

Wear a respirator and protective clothing. Do not breathe in smoke. Move containers from fire if it can be done without risk. Use normal fire-fighting methods and consider the hazards associated with other substances present.

* 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-rescuers: Keep unnecessary personnel away. Keep people away from spill/leak area and upwind. Eliminate all sources of inflammation. Wear appropriate protective equipment and clothing during cleanup. Do not breathe aerosols or vapors. Do not get in eyes, on skin or on clothing. Do not touch damaged containers or spilled product unless wearing appropriate protective clothing. Ensure adequate ventilation. Ventilate enclosed spaces before entering. Notify local authorities if significant leaks cannot be contained.

For first aiders: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during cleanup. Use personal protection recommended in section 8 of the SDS.

6.2. Environmental precautions

Protect sewers, surface water and groundwater. Do not discharge into surface water or sewers. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Avoid contact with spilled material. Always use appropriate protective equipment (see section 8 of the SDS). Depending on spill volume and ventilation, wear a respiratory protection device.

Small spills: Use appropriate protective equipment (see section 8 of the SDS). Use an absorbent product (sand, vermiculite, earth, etc.) and collect for disposal. Clean contaminated area with water. Collect washing water for later disposal.

Large spills: In case of nasal and respiratory irritation, immediately evacuate the area. Cleaners must be trained and wear approved and certified respiratory protection device, fitted with a filter against organic vapors, gloves and clothing impervious to chemicals, including rubber boots or protective shoes. Use an absorbent product (sand, vermiculite, earth, etc.) and collect for disposal in accordance with current legislation.

6.4. Reference to other sections

Section 7: Handling and storage

Section 8: Exposure controls/personal protection

Section 13: Disposal considerations

7. Handling and storage

7.1. Precautions for safe handling

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Read the label and product information before use.

Handle in well-ventilated areas. Use personal protective equipment (see section 8 of the SDS). Wash your hands thoroughly after handling. Take off contaminated clothing and wash before reuse.

Individuals with a history of asthma, allergies, chronic or periodical breathing difficulties should not be exposed to any process in which this product is used.

7.2. Conditions for safe storage, including any incompatibilities

Keep strictly in original packaging in a dry, cool and well-ventilated place. Keep away from food and drink, including those for animals. Keep the container tightly closed when not handled.

7.3. Specific end use(s)

No data available.

* 8. Exposure controls/personal protection

8.1. Control parameters

Workplace Exposure Levels (WEL):

Glutaraldehyde: WEL (Europe): 0.2 ppm – 0.8 mg/m³

Phosphoric acid: WEL (Europe): 0.5 ppm – 2 mg/m³

Derived No Effect Level (DNEL):

Glutaraldehyde: DNEL (workers – inhalation – long term exposure - local effects): 0.25 mg/m³

DNEL (workers – inhalation – acute exposure - local effects): 0.5 mg//m³

Phosphoric acid: DNEL (workers – inhalation – long term exposure - local effects): 2.92 mg/m³

Predictive No Effect Concentration (PNEC):

Glutaraldehyde: fresh water: 0.0025 mg/l

sea water: 0.00025 mg/l

intermittent waste water: 0.006 mg/l

soil: 0.209 mg/kg

waste water treatment plant: 0.8 mg/l

8.2. Exposure controls

Industrial hygiene:

Provide general room ventilation. Provide shower and eyewash station close to the workplace. After each use, systematically wash all personal protective equipment.

The procedures of industrial hygiene should also apply to this product:

- Do not eat, drink or smoke while handling.
- Prevent access by unauthorized persons.
- Keep out of reach of children.
- Wash hands and face thoroughly after handling.

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Personal protective equipment:

Respiratory protection:	If handling the product presents a risk of exposure by inhalation, wear a suitable, approved respiratory protection device with combined filters A2-P2 in accordance with standard EN 143.
Hand protection:	Wear chemical resistant gloves in accordance with standard EN 374, type nitrile rubber or butyl rubber.
Eye protection:	Wear safety goggles with protective sides in accordance with standard EN 166. When spraying, wear a face shield in accordance with standard EN 166.
Body protection:	Wear suitable protective clothing and, in particular an apron and boots (EN943).

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Limpid liquid
Color:	Blue
Odor:	Mint
Flash point:	Not applicable
Boiling point:	Not available
Density (20°C):	1.05 g/cm ³
Solubility:	Soluble in water
pH:	2,0 – 3,0

9.2. Other information

No data available.

10. Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use

10.2. Chemical stability

The product is stable under normal storage and handling

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

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Keep away from strong bases, sodium hypochlorite, peroxides and nitrates. Avoid contact with metals such as aluminum, carbon steel, copper, iron, mild steel.

10.6. Hazardous decomposition products

The thermal decomposition may release carbon monoxide, carbon dioxide, nitrogen oxide.

This information relates to the mixture itself. The application of the diluted mixture must be conducted in accordance with the directions provided on the technical data sheet.

* 11. Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity** :

Toxic if inhaled. Harmful if swallowed.

No data is available on the mixture. Data relates to substances in the mixture.

Glutaraldehyde: LD50 (oral, rat): \approx 77 mg/kg (OECD Guideline 401)
LD50 (skin contact, rabbit): > 1000 mg/kg (OECD Guideline 402)
LC50 (inhalation, 4 h, rat): 0.28 – 0.39 mg/l (OECD Guideline 403 – test with aerosol)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

LD50 (oral, rat): 795 mg/kg (OECD Guideline 401)

Didecyldimethylammonium chloride:

LD50 (oral, rat): 238 mg/kg (OECD Guideline 401)

LD50 (skin contact, rabbit): 3342 mg/kg

Phosphoric Acid:

LD50 (oral, rabbit): 2740 mg/kg

- **Irritation / Corrosion:**

Causes severe skin burns and eye damage.

Glutaraldehyde: Skin irritation (rabbit): Corrosive (OECD Guideline 404)

Eye irritation (rabbit): Irreversible damages (Draize Test)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Skin irritation: Corrosive

Eye irritation: Strong caustic effect

Didecyldimethylammonium chloride:

Skin irritation (rabbit): mild skin irritation (OECD Guideline 404)

Eye irritation: Strong caustic effect

Phosphoric Acid:

Skin irritation (rabbit): Corrosive (OECD 404)

Eye irritation (rabbit): Corrosive

- **Sensitization:**

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Glutaraldehyde: Patch test (guinea pigs): Sensitizing to the skin

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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

Based on available data, the substance does not meet the classification criteria

Didcyldimethylammonium chloride:

Skin contact (guinea pig): non-sensitizing (OECD 406)

Phosphoric Acid:

Skin contact: non-sensitizing

- CMR effects:

Not listed as mutagen.

Not listed as carcinogen.

Not listed as teratogen.

- Reproductive toxicity:

Not listed as toxic for the reproduction.

- Specific target organs toxicity:

The product is corrosive to the respiratory tract.

- Aspiration hazard

Based on available data, the product does not meet the classification criteria.

11.2. Information on other hazards

The product does not contain a substance above the legal limits listed in accordance with Article 59(1) of the REACH Regulation to have endocrine disrupting properties or is identified as having endocrine disrupting properties in accordance with the defined criteria in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

* **12. Ecological information**

No data is available on the mixture. Data relates to substances in the mixture.

12.1. Toxicity

Glutaraldehyde:

LC50 (96h, Cyprinodon variegatus): 39 mg/l

LC50 (96h, Lepomis macrochirus): 9.4 mg/l

EC50 (48h, Daphnia magna): 5.75 mg/l

EC50 (72h, Desmodesmus subspicatus): 0.6 mg/l (OECD 201)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

LC50 (96h, Oncorhynchus mykiss): 1.7 mg/l (OECD 203)

EC50 (48h, Daphnia magna): 0.03 mg /l (OECD 302)

EC50 (96h, Selenastrum capricornutum): 0.06 mg /l (OECD 201)

Didcyldimethylammonium chloride:

C5C0 (96h, Brachydanio rerio): 0.97 mg/l

EC50 (48h, Daphnia magna): 0.06 mg /l

CEC0 (96h, Selenastrum capricornutum): 0.12 mg /l

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12.2. Persistence and degradability

Glutaraldehyde: Easily degrading
Degradation of DOC (28d, aerobic): 90-100% (OECD 301A)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:
Fast degrading
DBO > 60% (OECD 301D).
Complies with the biodegradability criteria of Regulation (EC) 2004/648.

Didecyldimethylammonium chloride:
Easily degrading
DBO > 70% (OECD 301D).
Complies with the biodegradability criteria of Regulation (EC) 2004/648.

12.3. Bioaccumulative potential

Glutaraldehyde: Non bioaccumulative

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:
Moderate bioaccumulation potential

Didecyldimethylammonium chloride:
Non bioaccumulative

12.4. Mobility in soil

Glutaraldehyde: Possible adsorption in the soil

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substance considered to be persistent, bioaccumulative or toxic (PBT).
This mixture does not contain any substance considered to be particularly persistent or bioaccumulative particularly (vPvB).

12.6. Endocrine disrupting properties

The product does not contain any substance identified as having endocrine disrupting properties in accordance with Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is it included on the candidate list of substances of very high concern according to Article 59 of the EU REACH Regulation to have endocrine disrupting properties.

12.7. Other adverse effects

The product does not contain any substances listed in Regulation (EC) No. 1005/2009 relating to substances that deplete the ozone layer.

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13. Disposal considerations

13.1. Waste treatment methods

Waste:

Do not pour into drains or waterways. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Disposal must be in accordance with applicable local, state or national law.

Soiled packaging:

Empty container completely. Keep labels on container. Give to a certified disposal contractor.

14. Transport information

14.1. UN number

1903

14.2. UN proper shipping name

UN1903, **DISINFECTANT, LIQUID, CORROSIVE, N.O.S.** (glutaraldehyde, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides, didecyldimethylammonium chloride), 8, III, 3E

14.3. Transport hazard class

8: corrosive materials



14.4. Packing group

III

14.5. Environmental hazards

Hazardous to the environment



14.6. Special precautions for user

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

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ADR / RID:

Class	classification	Group	Label	Danger Ident. N°	LQ / EQ	Code tunnel
8	C9	III	8	80	5 I/ E1	E

IMDG:

Class	Group	2 nd label	FS	LQ / EQ	Dispositions
8	III	-	F-A, S-B	5L / E1	274

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IATA:

Class	Group	2 nd label	Cargo	Passenger	EQ	Note
8	III	-	856 / 60L	852 / 5L	E1	A3 A803
8	III	-	-	Y841/1L	E1	A3

15. Regulatory information

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

The product is classified and labeled in accordance with EU Regulation n° 1272/2008.

This product does not contain substance of great concern within the meaning of Regulation EC 1907/2006 (REACH).

Regulation (EC) No 1005/2009 of the European Parliament on substances that deplete the ozone layer:

Not applicable

Regulation (EC) No 850/2004 of the European on persistent organic pollutants:

Not applicable

Regulation (EU) No 649/2012 of the European Parliament concerning the export and import of hazardous chemicals:

Not applicable

Labelling according to Directive 98/8/CE:

PT3, PT4 - Glutaraldéhyde: 16.11%

PT3, PT4 - Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides: 18.96%

PT3, PT4 - Didecyldimethylammonium chloride: 6,63%

Specifications for classified facilities

4130 – Acute Tox. 3 (inhalation)

Occupational diseases

N°65: eczematype lesions caused by allergies

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

Meaning of symbols and abbreviations risk mentioned in section §3:

Acute Tox. 2: Acute toxicity, category 2

Acute Tox. 3: Acute toxicity, category 3

Acute Tox. 4: Acute toxicity, category 4

Skin Corr. 1B: Skin corrosion, category 1B

Eye Dam. 1: Serious eye damage/irritation, hazard category 1

Skin Sens. 1: Skin Sensitisation, category 1



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Resp. Sens. 1: Respiratory sensitisation, category 1
Aquatic Acute 1: Hazardous to the aquatic environment – acute hazard – category 1
Aquatic Chronic 1: Hazardous to the aquatic environment – chronic hazard – category 1
Aquatic Chronic 2: Hazardous to the aquatic environment – chronic hazard – category 2
STOT SE 3: Specific target organ toxicity – single exposure, hazard category 3
H301: Toxic if swallowed
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H330: Fatal if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335: May cause respiratory irritation
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long-lasting effects
H411: Toxic to aquatic life with long-lasting effects
EUH071: Corrosive to the respiratory tract

The content and format of this safety data sheet comply with Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) 2020/878.

Main source of data: Supplier's MSDS.

*Changes from previous version identified by:**

Information herein based on the current state of our knowledge at the date of this document. Users are responsible, under current legislation, of following all necessary precautions when using the product.